

# THE INTERIOR ANGLE

*Conference Information Inside*

## Surveying Kentucky for 50 Years!



Special thanks to the 2018 board for your service during the KAPS 50th anniversary year!  
From left, Mike Ladnier, James Mayo, Kevin Phillips, Josh Calico, Nick Jerdon, Greg Barker,  
Jason Graves, Bob Neuhaus, and James Knoth

**Kentucky Association of Professional Surveyors**

Winter 2018-19, Issue 1



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P.O. Box 211418  
Louisville, KY 40221

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

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Business Card (KAPS)	\$25

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## KAPS 2018 Officers & Directors

President	Nick Jerdon, PLS
President Elect	Greg Barker, PLS
Vice President of External Affairs	Bob Smith, PLS
Vice President of Internal Affairs	Kevin Phillips, PLS
Past President	Josh Calico, PLS
Secretary	Jason Graves, PLS
Treasurer	James Mayo, PLS

### Ex-Officio Directors

Professional Development	Mike Ladnier, PLS
NSPS Director	Craig Palmer, PLS
Board of Licensure Liaison	Chris Gephart, PLS
KSPE Liaison	Nick Jerdon, PLS
GIAC Liaison	Andy Kellie, PLS
KAMP Liaison (Non-Voting)	Steve Lilly, PLS

### Directors

James Mayo, PLS  
 Jason Graves, PLS  
 Rich Murphy, PLS  
 Tim Woodcock, PLS  
 Tom Bushelman, PLS  
 Justin Drury, PLS

### Chapter Chairpersons

Audubon	Mike Ladnier, PLS
Barren River	Bob Neuhaus, PLS
Bluegrass Capital	Tim Tong, PLS
Falls of the Ohio	Eric Spurrier, PLS
Green River	Bob Smith, PLS
Highlands	Johnny Justice, PLS
Northeast	Inactive
Northern Kentucky	Brent Webster, PLS
Purchase	James Knoth, PLS
Southeast	Neil Grande, PLS

### KAPS Office Staff

Administrative Assistant Jackie Hawkins

#### PLEASE NOTE

**KAPS now has a new office address:**

P.O. Box 211418  
 Louisville, KY 40221  
 502-695-2349

An Affiliate of  
 the American Congress on Surveying and Mapping  
 and the National Society of Professional Surveyors



## KAPS 2018 Standing Committee Chairs & Co-Chairs

Annual Conference	Mike Ladnier, PLS
Annual Picnic	Nick Jerdon, PLS
By-Laws	Thomas Bushelman, PLS
County Surveyor	Bob Smith, PLS
Education	Josh Calico, PLS
Ethics & Professional Practice	Chris Gephart, PLS
Finance	James Mayo, PLS
Legislative	Greg Barker, PLS
Membership	Jon Payne, PLS
Nominating	Greg Barker, PLS
Past Presidents	Josh Calico, PLS
Policy Manual	Thomas Bushelman, PLS
Professional Development	Mike Ladnier, PLS
Public Relations	Kevin Phillips, PLS
Publications/Newsletter	Justin Drury, PLS
Scholarship	John St. Clair, PLS

### 2018 Special Committee Chairs

Kentucky / Tennessee	
Boundary Stone	Mike Ladnier, PLS
Board of Licensure Nominations	Jason Graves, PLS
Continuing Education Hours	Nick Jerdon, PLS
KAPS / KAMP Joint	
Conference Committee	Mike Ladnier, PLS



## Nick Jerdon, PLS

[najsurveying@gmail.com](mailto:najsurveying@gmail.com)

859-533-5031

# From the President's Desk



Hello everyone! I hope that everyone is having an enjoyable holiday season. I know that things around KAPS seems as though we have not been very active, but it is quite the contrary. We have all been so overwhelmed with issues in keeping things moving in the right direction that other important items have fallen by the wayside. For that I apologize.

For those of you who don't know, Molly Forrest resigned her position with KAPS in April 2018 in order to spend more time with her daughter and enjoy life with her. It took us quite some time to fill the role that she held. Thankfully we found Jackie Hawkins to help us out in August and we are getting back on track. Pamela Bushelman also helped us with the planning efforts of the fall seminars, so thanks to her as well.

A few additional items worth noting are that we have moved out of the office in Frankfort, and our new mailing address is P.O. Box 211418, Louisville, KY 40221. Our phone number has remained the same, 502-695-2349. The leadership within KAPS felt that maintaining an office was no longer a necessity with the way that we conduct business at this time and that KAPS could better use the incoming funds in a more productive way than spending it on a building, and utilities, for a building that is rarely occupied.

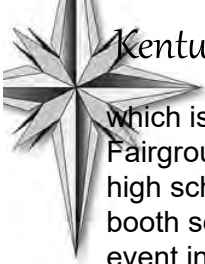
Another item that I feel is very important is that at the 2018 General Membership Meeting, having the president of KAPS serve a two-year term was ratified. I feel as though this will help all sitting officers in that it will provide us with a president and president-elect that will be better suited to guide us with knowledge that has been accumulated over a longer period of time. I feel that this will be a key to keeping KAPS moving in a sustainable direction.

I hope that if you attended any of the Fall Seminars that you enjoyed the course material. As always, we do like hearing constructive criticism. We want our courses to be varied and offer you the classes that you need as well as the classes that will help you succeed in your career. If there are ever courses that you would like to see, please don't hesitate to make the suggestion. Our conference/seminar committee is very dedicated to bringing the best courses available to our membership and surveyors licensed in our great state!

We are well underway for planning for our upcoming 2019 Conference that will take place February 7-9 at the Holiday Inn East in Louisville. I look forward to seeing you all there and I truly hope to have the opportunity to see some new faces. Conference is a great time to learn, bridge gaps that exist between theoretical knowledge and practicing knowledge as well as a wonderful time to network and meet the other professionals in our state. I know that the most important part of conference to me is the camaraderie that I experience while I am there. I hear stories from other surveyors, I tell stories and we can all relate and enjoy each other's company. Learning is important, but sometimes the advice and stories that you hear from other surveyors may be the best knowledge you ever receive.

This year, just like last year, KAPS had a booth set up at the Kentucky Construction Career Days

*cont.*



which is held in September at the Shelby County Fairgrounds. This year there were more than 3,000 high school students that attended. We also had a booth set up at Junior Achievement's INSPIRE event in October. This is an event where 8th and 9th graders attend to discuss job opportunities for their career planning. Around 12,000 students attended this event this year.

These were both great events that allowed high school aged children to talk to Professional Surveyors about what we do. There was no "middle man" and the children heard the information directly from a land surveyor's mouth. As with my predecessors, I feel that reaching kids and convincing them how great our profession is, will be the key to ensuring our profession's longevity.

On that same note, I believe that we all, as land surveyors and KAPS members, need to do more to bring young people to your chapter meetings and to get them involved with KAPS. We also need to do a

better job at bringing youth into our profession. We can start by bringing our staff to KAPS meetings, pay for their membership to KAPS, and encourage them to sign up for classes and to go further in the profession. We need more people, in KAPS and in our profession.

I will wrap this all up by letting you know that I appreciate all of your contributions to KAPS this past year, and all years previous. I hope that we at KAPS will have your continued support, as we are only here for you and our profession. If there is ever something that you feel that needs to be discussed please do not hesitate to reach out to myself or any other board member. I hope that you all have a safe and wonderful Christmas and I very much look forward to seeing you all at our upcoming Conference in 2019.

Humbly yours,

**Nick Jerdon, PLS**  
2018 & 2019 KAPS President



*Nick was interviewed last March during KAPS night at the 2018 KET Telefund. He and all those who volunteered for the annual phone bank helped raise \$27,289! Watch the video at [https://www.youtube.com/watch?v=howf1\\_mweC4](https://www.youtube.com/watch?v=howf1_mweC4)*



# THE MEASUREMENT OF TOMORROW

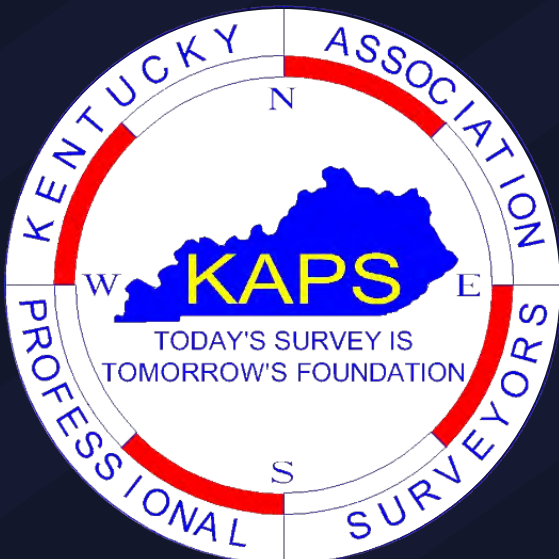
## Kentucky Association of Professional Surveyors Annual Conference

February 7-9, 2019

Holiday Inn  
Louisville East

KAPS Member		Non-Member	
Full Registration.....	\$350	Full Registration.....	\$625
One Day Registration.....	\$220	One Day Registration.....	\$320

KAPS is more than where you get your continuing education. We are a community created by and for surveyors. Join us for the camaraderie, community, and commitment to your profession.



KAPS is a proud affiliate of the National Society of Professional Surveyors



## James Ed Manning, Executive Director

Kentucky State Board of Licensure for Professional Engineers and Land Surveyors  
Kentucky Engineering Center, 160 Democrat Drive, Frankfort, Kentucky 40601

# The Board of Licensure Report October 2018

### Board Staff Changes

On August 3, at a special called meeting, the Board of Licensure selected James Ed Manning to be the new Executive Director, replacing B. David Cox who retired effective August 31 after 17 years as Executive Director. The Board tapped Investigator Kyle Elliott, PLS to head the enforcement section as Director of Enforcement. During August and September, we conducted a search for a new board investigator. We are proud to announce that Heather Baldwin, PE, PLS has accepted an offer and will be joining the board staff as Board Investigator on November 16. Heather will undergo NCIT investigator training later this year in Tallahassee.

### New Board Members

In September, Governor Bevin appointed three new individuals to the Board of Licensure. Ryan Griffith, PE of Lexington was appointed to fill the unexpired term of Charles Scroggin, PE who passed away last November. Ryan is a civil engineer and is Director of the Division of Construction at the Kentucky Transportation Cabinet. Nicole Gallavotti, PE of Lexington replaces James David Sigler, PE whose term expired. Nicole is a Senior Environmental Engineer and Principal at Shield Environmental Associates Inc. David Cole Mitcham, PE of Lexington replaces Sam Williams, PE whose term expired. Cole is a Senior Project Engineer at Kentucky American Water. The new Board Members were sworn in on October 12, 2018.

### Firm Renewals

All Firm Permits (also known as Business Entity Permits) expire December 31, 2018. The online firm renewal system is open and accepting renewal payments at:

<https://kyboels.ky.gov/Renewals/Pages/default.aspx>

Renewal takes only a few minutes and you can pay the renewal fee online with a credit card. Renewal Notices will go in the mail in late October or early November.

### State Specific Surveying Exam Discontinued

At the October 12, 2018 meeting, the Board of Licensure voted to discontinue the two-hour State Specific Exam for land surveying license candidates. In lieu of the exam, surveyor license applicants will receive printed information regarding the statutes and regulations which govern the practice of land surveying in Kentucky.

The national Principals and Practice of Surveying (PS) exam is now computer-based. Elimination of the State Specific Exam means that applicants can now fulfill all exam requirements for surveying licensure anytime from any testing center in the country. This will speed up the licensing process substantially.

### Late Individual Renewals

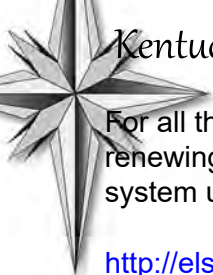
If you missed the June 30 renewal deadline (odd number years for A-K and even number years for L-Z), you have up to one year to renew using the online renewal system. The system will automatically calculate a 10% per month late renewal penalty. Please be aware that anyone who renews on or after September 1 of his or her renewal year is subject to an automatic continuing education audit.

The late renewal provision notwithstanding, practice on an expired license is prohibited. While your license is expired, you cannot practice, offer to practice, or represent to the public that you are a professional engineer or professional land surveyor. Each of these acts constitutes unlicensed practice and can result in disciplinary action.

Any licensee whose license remains in expired status for more than one year must apply for reinstatement before returning to active practice.

*cont.*

Be sure to select the "Online Firm Renewal" option; not the individual renewal option.



For all these reasons, please be timely when renewing. Be sure to check your address in our system using the searchable roster at:

<http://elsweb.kyboels.ky.gov/kboels-web/Searchable-Roster.aspx>

Also, please mark your own calendar so you know when your firm and/or individual renewals are due. Even though we send a Renewal Notice in the mail, you are solely responsible for ensuring that your license(s) and permit(s) are renewed in a timely manner.

### **Wallet Cards Discontinued**

We no longer issue wallet cards for renewed permits or licenses. You can check and print information regarding the status of permits and licenses using our online searchable roster, which is updated nightly.

### **Continuing Education Audits and NCEES Continuing Education Tracking System**

Random Continuing Professional Development (CPD) audits went out in early September. If you have received an audit notice and have not yet replied to it, please contact Tamra Chesser at the Board office immediately. Failure to respond to a CPD audit within 30 days can result in disciplinary action.

The National Council of Examiners for Engineering and Surveying (NCEES) offers a free continuing education tracking system where you can enter your continuing education courses, scan and store documents such as completion certificates, and transmit them electronically to us if you are selected for audit. The link to the free tracking system is available on our website at:

<http://kyboels.ky.gov/Already-Licensed/Pages/Continuing-Education.aspx>

Please take advantage of this free service.

### **ENFORCEMENT ACTIONS SUMMARY For the Period July 28 – October 12, 2018** Kyle Elliott, Director of Enforcement

**THOMAS WARREN CRABTREE, PLS**  
Thomas Warren Crabtree, PLS, of Hanson was disciplined for committing violations of the surveying

Standards of Practice, as set out in 201 KAR 18:150. In 2016, the Board of Licensure received a complaint alleging a survey by Crabtree overlapped onto the complainant's property. An investigation by the Board found that Mr. Crabtree had failed to perform adequate record research and field work, sufficient to identify the existence of a deed overlap. On his plat of survey, Mr. Crabtree failed to illustrate the overlap and had other violations of the surveying Standards of Practice. An expanded review of Mr. Crabtree's recent property surveying work revealed multiple instances of violations of the Standards of Practice. These matters were resolved through a Consent Decree wherein Mr. Crabtree acknowledged the violations and agreed to the following sanctions: (1) a written reprimand, (2) a fine of \$1,000, and (3) a two-year probation of Mr. Crabtree's surveying license during which time he will submit to a quarterly review of his surveying work. The Board accepted the Consent Decree on October 12, 2018.

### **JOE D. ANDERSON, PE, PLS**

Joe D. Anderson, PE, PLS of Pikeville was disciplined for committing violations of the surveying Standards of Practice, as set out in 201 KAR 18:150. In 2018, the Board of Licensure received a complaint alleging a property survey by Anderson erroneously placed a common line and failed to meet the surveying Standards of Practice. An investigation by the Board found that Mr. Anderson had committed violations of those Standards, including not having set corner monuments as required. An expanded review of Mr., Anderson's recent property surveying work revealed multiple occurrences of violations of the Standards of Practice. These matters were resolved through a Consent Decree wherein Mr. Anderson acknowledged the violations and agreed to the following sanctions: (1) a written reprimand, (2) a fine of \$1,000, (3) attend a Board approved, live, continuing professional development seminar on the surveying Standards of Practice within six months, and (4) a two-year probation of Mr. Anderson's surveying license during which time he will submit to a quarterly review of his surveying work. The Board accepted the Consent Decree on October 12, 2018.

Show you "like" KAPS  
and follow on Facebook!





# 2018 KY State Board of Licensure Board of Directors

The Kentucky State Board of Licensure for Professional Engineers and Land Surveyors (KYBOELS) was established by the General Assembly in 1938 to protect the public health, safety and welfare. This is accomplished through the licensing and monitoring of individuals and firms deemed qualified to practice.

Among the services KYBOELS provides to engineers and surveyors and the public are licensure, reciprocity, examinations, and investigations and regulatory compliance. KYBOELS is not associated with the Kentucky Society of Professional Engineers; however, KYBOELS resides in the Kentucky Engineering Center as a leasee of KSPE.

Statutes and regulations regarding engineering and surveying law in Kentucky are available on the KYBOELS website, <http://kyboels.ky.gov>. If you have specific questions not addressed here, please contact the board office at 800-573-2680 or 502-573-2680.

## **CHAIR**

James Donald Pedigo, II, PLS  
[dpedigo@aei.cc](mailto:dpedigo@aei.cc)

## **VICE CHAIR**

Herb Goff, PE  
[hgoff@donan.com](mailto:hgoff@donan.com)

## **SECRETARY**

William A. Bowie, PE, PLS  
[wbowie@twc.com](mailto:wbowie@twc.com)

## **BOARD MEMBERS**

James J. Bertram, Jr., PLS  
[bsurveying@yahoo.com](mailto:bsurveying@yahoo.com)

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Emmanuel Collins, Ph.D  
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David Cole Mitcham, PE  
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## **EXECUTIVE DIRECTOR**

Ed Manning, PE, PLS  
[jamese.manning@ky.gov](mailto:jamese.manning@ky.gov)

## **Executive Assistant**

Wanda Jordan  
[wanda.jordan@ky.gov](mailto:wanda.jordan@ky.gov)

## **General Counsel**

Jonathan Doran Buckley  
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## **Director of Enforcement**

Kyle Elliott, PLS  
[kyle.elliott@ky.gov](mailto:kyle.elliott@ky.gov)

## **Land Surveying Licensure/Continuing Education**

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## **Engineering Licensure/Business Permits**

Melissa Kopp  
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## **Legal and Enforcement Assistant**

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## **Kentucky State Board of Licensure for Professional Engineers and Land Surveyors**

Kentucky Engineering Center, 160 Democrat Drive  
Frankfort, KY 40601  
(502) 573-2680 or (800) 573-2680  
<http://kyboels@ky.gov>



# Kentucky State Board of Licensure Calendar of Events 2019

January 10	Committee Meetings	Frankfort
January 11	Board Meeting	Frankfort
April 5	PE, STR Vertical Exams	Louisville
April 6	STR Horizontal Exam	Louisville
April 25	Committee Meetings	Frankfort
April 26	Board Meeting	Frankfort
May 16-18	NCEES Joint Western/Southern Zone Mtg.	Boise Idaho
July 25	Committee Meetings	Frankfort
July 26	Board Meeting	Frankfort
August 14-17	NCEES Annual Meeting	Scottsdale, AZ
October 24	Committee Meetings	Frankfort
October 25	Board Meeting	Frankfort
October 24	PE, STR Vertical Exams	Louisville
October 25	STR Horizontal Exam	Louisville

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## 2018 KAPS BOARD EMAILS

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- President Elect, Greg Barker: [greg@barkerls.com](mailto:greg@barkerls.com)
- VP External Affairs/Co. Surveyor Chair, Bob Smith: [bsmithpls@yahoo.com](mailto:bsmithpls@yahoo.com)
- VP of Internal Affairs, Kevin Phillips: [kevin@endris.com](mailto:kevin@endris.com)
- Past President, Josh Calico: [JCalico@mindelscott.com](mailto:JCalico@mindelscott.com)
- Director, Jason Graves: [jasongraveslandsurveying@gmail.com](mailto:jasongraveslandsurveying@gmail.com)
- Director, Tom Bushelman: [pls@commonwealthsurveying.com](mailto:pls@commonwealthsurveying.com)
- Director, Justin Drury: [jdd75@msn.com](mailto:jdd75@msn.com)
- Director, James Mayo: [jmayo@palmernet.com](mailto:jmayo@palmernet.com)
- Director, Rich Murphy: [rich.murphy@abbie-jones.com](mailto:rich.murphy@abbie-jones.com)
- Director, Tim Woodcock: [tim.woodcock@abbie-jones.com](mailto:tim.woodcock@abbie-jones.com)
- Professional Dev., Director/Audubon Chapter Chair, Mike Ladnier: [mladnier@cashwaggnr.com](mailto:mladnier@cashwaggnr.com)
- NSPS Director, Craig Palmer: [cpalmer@palmernet.com](mailto:cpalmer@palmernet.com)
- KY Board of Licensure Liaison, Chris Gephart: [chrisgephart@bayerbecker.com](mailto:chrisgephart@bayerbecker.com)
- GIAC Liaison, Andy Kellie: [andy.kellie@murraystate.edu](mailto:andy.kellie@murraystate.edu)
- KAMP Liaison, Steve Lilly: [slilly@pdskc.org](mailto:slilly@pdskc.org)
- Barren River Chapter Chair, Bob Neuhaus: [neuhaus@aei.cc](mailto:neuhaus@aei.cc)
- Bluegrass Chapter Chair, Tim Tong: [TTong@grwinc.com](mailto:TTong@grwinc.com)
- Falls of the Ohio Chapter Chair, Eric Spurrier: [eric@spurrierlandsurveying.com](mailto:eric@spurrierlandsurveying.com)
- Green River Chapter Chair, Bob Smith: [bsmithpls@yahoo.com](mailto:bsmithpls@yahoo.com)
- Highlands Chapter Chair, Johnny Justice: [john\\_justice@mikrotec.com](mailto:john_justice@mikrotec.com)
- Northern Kentucky Chapter Chair, Brent Webster: [brent@nkylandsurveyor.com](mailto:brent@nkylandsurveyor.com)
- Purchase Chapter Chair, James Knoth: [james@knothsurveying.com](mailto:james@knothsurveying.com)
- Southeast Chapter Chair, Neil Grande: [titansurveying@gmail.com](mailto:titansurveying@gmail.com)
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- Scholarship Chair, John St. Clair: [jsaint@windstream.net](mailto:jsaint@windstream.net)



**Holly L. Gill-Gaither, CIC**

- ❖ 15 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

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\* Trade-in must be in good working condition. Trade-in values will vary up to the maximum discounts shown.



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Email: tracy@yourprecision.com

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## Cincinnati State Still Working toward Bachelor of Applied Science degree in Land Surveying

Carol L. Morman, PS, PE

In May 2018, Cincinnati State Technical and Community College received approval by the Chancellor of Ohio to offer a Bachelor of Applied Science degree in Land Surveying. This new program is scheduled to be evaluated by the Higher Learning Commission in the Spring of 2019 and is hoping to obtain final approval for enrollment for the Fall 2019 semester.

Students interested in land surveying can get started in the program now by enrolling in our existing Associate of Applied Science degree in Civil Engineering Technology – Surveying Option or Advanced Land Surveying Certificate. If granted final approval of the Bachelor degree program, interested students will be moved to the four year bachelor degree program leading directly to licensure eligibility in Ohio, Indiana, and Kentucky. Even if approval is not granted, Cincinnati State, with Northern Kentucky University, currently offers and will continue to offer an “approved surveying curriculum” in Ohio, Indiana, and Kentucky.

The proposed and existing surveying programs at Cincinnati State are designated as an “approved surveying curriculum” in Ohio, Indiana, and Kentucky. In-state tuition is available for all Ohio students and students living in certain Southeast Indiana and Northern Kentucky counties. Cincinnati State will pursue ABET accreditation for the Bachelor degree, if approved.

The curriculum and contact information for more information is shown below. Information about Cincinnati State Technical and Community College can be found at [www.cincinnati-state.edu](http://www.cincinnati-state.edu). Contact Carol Morman, PS, PE at [carol.morman@cincinnati-state.edu](mailto:carol.morman@cincinnati-state.edu) for specific program information.

# Bachelor of Applied Science in Land Surveying

126 Credit Hours, 4 Years, \*\*\*Pending approval of the Higher Learning Commission (HLC)

\*\*\*Anticipated Accreditations: ABET ANSAC for the Associate of Applied Science in Land Surveying and Bachelor of Applied Science degree in Land Surveying.

Enroll in the Associate of Applied Science in Civil Engineering Technology – Surveying degree in Fall 2018, transfer to the Bachelor of Applied Science in Land Surveying degree upon approval from HLC, anticipated Fall 2019.

<u>FALL YEAR 1</u>			<u>Credit Hours</u>
FYE	100	College Survival Skills	1
MAT	151	College Algebra	4
SUR	100	Introduction to the Profession of Land Surveying	3
CET	105	Introduction to Surveying	3
CET	115	Architectural Drafting and Computer Aided Design	4 = 15 cr. hrs.

OSHA 10 Certified

<u>SPRING YEAR 1</u>			
MAT	152	Trigonometry	4
CET	110	Advanced Surveying and Construction Layout	3
SUR	120	Advanced Computer Aided Design, Civil 3D and Carlson	3
CET	266	Surveying History	4 = 14 cr. hrs.

Eligible for National Society of Professional Surveyors Certified Surveying Technician Level I Exam  
(28 Credit Hours Min.)

<u>SUMMER YEAR 1</u>			
CET	291	FIRST CO-OP	2
ENG	101	English Composition 1	3 = 5 cr. hrs.

<u>FALL YEAR 2</u>			
PHY	151	Physics 1: Algebra and Trigonometry-Based	4
CET	250	Route Location and Design (on-line offering)	4
CET	251	Elements of Land Surveying 1 (on-line offering)	3
CET	255	Land Information Modeling	3
SUR	256	Dendrology I	2 = 16 cr. hrs.

<u>SPRING YEAR 2</u>			
ENG	10X	choose ENG 102-English Comp 2 or ENG 105-Comp & Bus Comm	3
ECO	110	Principles of Macroeconomics	3
COMM	110	Public Speaking	3
CET	252	Elements of Land Surveying 2 (on-line offering)	4
SUR	257	Dendrology II	2 = 15 cr. hrs.

<u>SUMMER YEAR 2</u>			
CET	292	SECOND CO-OP	2
CET	260	Control Surveying (Saturday offering)	4 = 6 cr. hrs.

Associate of Applied Science degree in Surveying and Eligible for National Society of Professional Surveyors Certified Surveying Technician Level II Exam (70 Credit Hours Min.)

FALL YEAR 3

ECO, GEO, HST, LBR, POL, PSY, or SOC	3	
ART, COMM 130, LIT, MUS, PHI, REL 105, or THE	3	
MAT XXX* MAT 251 Calculus 1 (5) OR MAT 131 Statistics I (3)	3	
CET 277 Advanced Survey Calculations and Statistics	4	= 13 cr. hrs.

\*students seeking Indiana registration should take MAT 251.

SPRING YEAR 3

PHY 152 Physics 2: Algebra and Trigonometry-Based	4	
ART, COMM 130, LIT, MUS, PHI, REL 105, or THE	3	
CET 267 Surveying Laws and Ethics	4	
CET 287 Geospatial Surveying	4	= 15 cr. hrs.

SUMMER YEAR 3

CET 293 THIRD CO-OP	2	= 2 cr. hrs.
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FALL YEAR 4

SUR 420 Photogrammetry and Remote Sensing	3	
EVS 120 Environmental Geology	4	
MKT 101 Principles of Marketing	3	
MGT 120 Entrepreneurship	3	= 13 cr. hrs.

SPRING YEAR 4

CET 465 Subdivision Design and Drainage Control	4	
CET 490 Surveying Capstone (Saturday offering)	3	
Science Elective and Lab (5) OR BIO 131 Biology 1 (5) OR PSC 105 Astronomy (4)	4	= 11 cr. hrs.
CHE 121, CHE 131 General Chemistry 1 Lecture		

For more information, please contact Carol Morman.

Carol L. Morman, PE, PS  
Program Chair, Professor - Civil Engineering Technologies  
Center for Innovative Technologies, Rm. 210 Main  
Cincinnati State Technical and Community College  
3520 Central Parkway  
Cincinnati, Ohio 45223-2690  
513-569-1770 (tel) 513-569-4689 (fax)  
[www.cincinnati-state.edu](http://www.cincinnati-state.edu)



# KAPS: Our Story

The Kentucky Association of Professional Surveyors (KAPS) is a voluntary non-profit organization of professional land surveyors, surveyors in-training and others dedicated to serving the public interest and to promoting and advancing the profession of land surveying. KAPS provides professional land surveyors with the opportunity to meet other professionals from all disciplines and management levels along with the opportunity to voice their opinions and ideas, and to provide a single, positive voice for the land surveying profession.

KAPS maintains and perpetuates an organization for members having common professional problems and interests. The organization provides effective forums for discussion and united action on the part of its members for the enhancement and betterment of professional recognition, status and conditions of employment. KAPS also addresses other matters that contribute to the welfare of the people of the Commonwealth of Kentucky, KAPS membership and State Government.

"Every man owes a part of his time and money to the business or industry in which he is engaged. No man has a moral right to withhold his support from an organization that is striving to improve within his sphere."

*President Theodore Roosevelt, 1908*

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**of Tomorrow," Feb. 7-9,**  
**Holiday Inn Louisville East**

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Fax: 270-842-0910  
[www.landmarkengineering.net](http://www.landmarkengineering.net)

10 a.m. EDT Saturday, April 7, 2018

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

# KAPS Board of Directors

## CALL TO ORDER

KAPS 2018-2019 President, Nick Jerdon, called the April 7, 2018 KAPS Board of Directors meeting to order.

## PROXY VOTES:

Jason Graves made a motion to approve the proxy of Tim Tong to Jason Graves (received 3/15/2018). Bob Smith seconded. Motion carried.

**MEMBERS PRESENT:** Nick Jerdon – President, Josh Calico – Past President, Greg Barker – President-Elect, Kevin Phillips – Vice President of Internal Affairs, Bob Smith – Vice President of External Affairs, Tim Woodcock – Director, Rich Murphy – Director, James Mayo – Director/Treasurer, Jason Graves – Director/Secretary, Tom Bushelman – Director/ByLaws, Brent Webster – Northern Kentucky Chapter Chair, Eric Spurrier – Falls of the Ohio Chapter Chair, Mike Ladnier – Audubon Chapter Chair, Chris Gephart – KYBOELS Liaison, James Knoth – Purchase Chapter

**STAFF PRESENT:** None

**GUESTS PRESENT:** None

**MEMBERS ABSENT:** Craig Palmer – NSPS Director, Andy Kellie – GIAC Liaison, Justin Drury – Director, Bob Neuhas – Barren River Chapter Chair, Tim Tong – Bluegrass Capital Chapter Chair, Johnny Justice – Highlands Chapter Chair, Neil Grande – Southeast Chapter Chair

## PRESIDENT'S WELCOME

President Nick Jerdon welcomed everyone to the meeting and thanked them for making their effort to attend. Introductions were made.

## ADDITIONS OR REVISIONS TO THE AGENDA

Check Signers  
Investor account - Signers  
B.O.L. Discussion

## REVIEW AND APPROVAL OF BOARD MEETING MINUTES

The minutes of the February 14, 2018 meeting were reviewed. Mike Ladnier made a motion to

approve. Josh Calico seconded. Motion carried.

The minutes of the February 15, 2018 meeting were reviewed. Mike Ladnier made a motion to approve. Jason Graves seconded. Motion carried.

The minutes of the February 16, 2018 General membership meeting were reviewed. They are to be approved at the February 2019 General Membership meeting.

## KAPS OFFICER REPORTS

No reports were given from the President, President Elect, or Treasurer. The Administrative Assistant's Report was submitted to the executive committee via email.

## OLD BUSINESS

- a) Online Courses Update – Mr. Payne was not present to discuss. It was reported to Mike Ladnier, by Mr. Payne, that his course was 75% complete and should be ready by mid-summer 2018.
- b) KET Telefund – President Jerdon reported that the 2018 Telefund was a great time and a success, with \$27,000 raised during KAPS' evening there.

## NEW BUSINESS

- a) Next KAPS Board meeting – June 15, 2018 at Barren River Lake State Park.
- b) Administrative Assistant search – A short term committee was formed to work on this search. The committee includes Kevin Phillips, Chris Gephart, Nick Jerdon, and Greg Barker. A motion was made by Tom Bushelman to allot the committee \$1,000 for fees related to advertising. Chris Gephart seconded. Motion carried.
- c) Office space issues – General discussion. No motion was made. *cont.*





- d) General discussion on bonding check signers and how to handle check payments. No motions were made.
- e) Discussion on Technology Center in Somerset, KY and if KAPS would be able/willing to develop a curriculum to get to high school students interested in land surveying. Kevin Phillips brought up how pipefitters have established their own training facilities in order to bring people into their field. Additional discussion followed on NSPS's certificate/training program (CST - 4 level program).

**EX-OFFICIO DIRECTORS REPORTS**

No reports were given from the GIAC Liaison, KSPE Liaison, or NSPS Director.

**KAMP Liaison** – no report (Steve Lilly resigned this position at conference)

**KY State Board of Licensure Liaison** – no written report (322.470 was discussed in relation to UAV/ drones and it was reiterated that surveyors do not have the right to invade people's privacy with cameras)

**Professional Development Chair** – no written report (Mike let the board know that Molly sent out the seminar/conference totals)

**CHAPTER REPORTS**

- Audubon** – no written report (2 meetings this year)
- Barren River** – no report
- Bluegrass-Capital** – no report
- Falls of the Ohio** – no written report
- Green River** – no written report (March meeting)
- Highlands** – no report
- Northeast** (inactive) – no report
- Northern Kentucky** – no report
- Purchase** – no report
- Southeast** – no report

**COMMITTEE REPORTS**

No reports were given from Annual Conference, By-Laws, County Surveyors, Ethics and Professional Practice, Finance, Legislative, Membership, Nominating, Past Presidents, Policy Manual, Public Relations, Publications/Newsletter, or Scholarship.

**Annual Golf Outing and Picnic** – no written report. Discussion was had to not have a picnic on a separate day and cramming everything into one single day.

**Education** – no written report. Bushelman: Cincinnati State T&CC now has a four-year program on their own, without transferring to a four-year university. Calico: Trig-Star check for \$500 was requested by Brian Cox; a motion was made by Tom Bushelman that the chapter that the winning student resides in gives \$250, with the remaining \$250 to be paid by KAPS. Jason Graves seconded. Motion carried.

**SPECIAL COMMITTEE REPORT**

**KY / TN State Line Monument** – no written report. Mike Ladnier verbally reported that he has heard that surveyors in Tennessee have set and they are beginning to provide reports. Mike would like to make the state line monument reports available on the KAPS website, similar to NGS datasheets. Mike has received roughly 30 reports.

**Board of Licensure Nominations** – no written report. Jason Graves reported that Don Pedigo's seat will be up this year and that he will get the standard packets together to send out to chapter chairs and members.

**Continuing Education Hours** – no written report. Nick Jerdon stated the Rachel (Government Strategies) suggested that now would not be a terrible time to consider introducing language to increase CPD hours if everyone is on board. Discussion was had regarding limiting hours acceptable through on-line courses.

**KAPS/KAMP Conference Committee** – no report

**ADJOURNMENT**

Jason Graves made a motion to adjourn. James Mayo seconded. Motion carried. Meeting adjourned.

Submitted by Jason Graves, PLS, Secretary Edited by Diane Comer




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10 a.m. EDT Saturday, Sept. 8, 2018

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

# KAPS Board of Directors

## CALL TO ORDER

KAPS 2018-2019 President, Nick Jerdon, called the September 8, 2018 KAPS Board of Directors Meeting to order.

## PROXY VOTES:

Josh Calico to Jason Graves (received 9/6/2018) and Tim Woodcock to Rich Murphy (received 9/8/2018); Jason Graves made a motion to accept the late proxies as-is. James Mayo seconded. Motion carried.

**MEMBERS PRESENT:** Nick Jerdon – President; Greg Barker – President Elect; Kevin Phillips – Vice President of Internal Affairs; James Mayo – Director/Treasurer; Jason Graves – Director/Secretary; Richard Murphy – Director; Timothy Tong – Bluegrass/Capital Chapter Chair; Eric Spurrier – Falls of the Ohio Chapter Chair; Michael Ladnier – Audubon Chapter Chair; Tom Bushelman – Director/Bylaws and Policy Manual Chair; Justin Drury – Director/Publications/Newsletter

**STAFF PRESENT:** Jackie Hawkins – Administrative Assistant (temporary) and Pam Bushelman – Event Coordinator

**GUESTS PRESENT:** Jim Bertram, Jr. – KYBOELS Board Member and Northern Kentucky KAPS Member

**MEMBERS ABSENT:** Josh Calico – Past President; Robert Smith – Vice President of External Affairs; Tim Woodcock – Director; Craig Palmer – NSPS Director; Chris Gephart – KYBOELS Liaison; Brent Webster – Northern Kentucky Chapter Chair; James Knoth – Purchase Chapter Chair; Johnny Justice – Highlands Chapter Chair; Neil Grande – Southeast Chapter Chair; Bob Neuhaus – Barren River Chapter Chair

## PRESIDENT'S WELCOME

President Nick Jerdon welcomed everyone to the meeting and thanked them for making their effort to attend. Introductions were made.

## ADDITIONS OR REVISIONS TO THE AGENDA

- a) Pam Bushelman needs to update board on fall seminars

- b) Nick Jerdon brings question regarding KAPS policy for presidential leave due to move or illness

## REVIEW AND APPROVAL OF BOARD MEETING MINUTES

Minutes from the April 7, 2018 meeting were not available due to Secretary Jason Graves not having them prepared. Jason said he would prepare the April meeting minutes and send them out to be approved at a later date.

## KAPS OFFICER REPORTS

No reports were given from the President or President Elect.

**Treasurer's Report** – no report. Transaction report (4/1/2018 – 9/1/2018) submitted. No vote needed

**Administrative Assistant's Report** – no written report. Discussion on website issues. Greg Barker made a motion for Jackie Hawkins to update the website. Mike Ladnier seconded. Motion carried. Add a single email for KAPS (i.e. kaps@kaps1.com and president@kaps1.com).

## OLD BUSINESS

- a) Administrative Assistant position – Cut Indeed.com account, if needed. Jason Graves and Pam Bushelman brought up how a spouse of a KAPS member has more of a vested interest in KAPS than anyone else who may be hired. It was discussed to keep Jackie Hawkins and Pam Bushelman in place until after the conference and everything is running more smoothly.
- b) Check signors – will be Greg Barker, Kevin Phillips, James Mayo, Josh Calico, Tom Bushelman, Jackie Hawkins and Bob Fentress. Jason Graves made a motion for these signors. Tim Tong seconded. Motion carried. It was discussed that check signors

*cont.*



Have to submit a license, signature, contact information and social security number and when they each need to go to the bank to sign paperwork.

Kevin Phillips made a motion for Jackie Hawkins to be the designated person to do bill pay and online payments. James Mayo seconded. Motion carried.

c) New B.O.L. organization – Mr. Bertram (KYBOELS board member) stated that there will be no change in the near future.

d) Office space and storage issues – Jackie Hawkins provided pricing for storage units around Louisville. The financial impact of maintaining an office was discussed and was decided to vacate the office space. No motion made. Anything over 10 years old will likely be thrown out. Jackie Hawkins will keep necessary items at her house. Remaining items will be stored in storage unit.

e) Online MTS Course – Item is tabled

f) Student outreach – Carol Morman (CSTCC Cincinnati) was discussed as a point of contact for reaching high school-aged kids. Pam Bushelman suggested a “children’s camp” and a committee was formed to brainstorm ideas for a camp. Committee consists of Tim Tong, Greg Barker and Tom Bushelman.

g) KAMP Liaison – Jason Graves let the board know that he had a conversation with Stephen Chino (KAMP President-Elect) about the need to replace Steve Lily as the KAPS-KAMP Liaison. Mr. Chino told Jason that he would look through the KAMP roster to find a qualified individual.

h) Seminar money - It was brought up that KAPS has not distributed conference, seminar, or member funds to chapters.

i) Conference (\$7,000 profit) - No additional discussion

j) Red Cross Approval Issues - No additional discussion

k) No picnic - No discussion other than to state that there was a picnic that was attended by 5 people.

## NEW BUSINESS

a) Next KAPS board meeting – December 1, 2018 at the Kentucky Engineering Center in Frankfort.

b) Low membership – We currently have 170 members. We have over 100 non-renewing members from last year.

c) How to handle invoicing to non-members who paid member rates for conference. Jackie Hawkins suggested that she sends out an email letting members who paid discounted rates who are not members about not finding their payment for membership and whether or not they can provide a receipt.

d) Convenience fee for paid items via credit card – Jackie will contact CPA about taxes on items and conferences/seminars. A motion was made by Jason Graves to add a handling fee that doesn’t exceed 4%, but will be listed as a dollar figure. James Mayo seconded. Motion carried.

e) Redoing website – Previously discussed.

f) Unaccounted for tablet – Jackie couldn’t find in office. Molly doesn’t know where it is. No further action.

g) New phone plan – A motion was made by Greg Barker to let Jackie Hawkins shop around for a new phone and plan and port KAPS office to new phone. Tim Tong seconded. Motion carried. It was also brought up that Pam Bushelman invoices for her internet connection while working on items for KAPS.

h) Post office box and forwarding mail – A motion was made by Tim Tong to get a #2 sized post office box in Louisville. Jason Graves seconded. Motion carried.

i) Obtaining online access to bank – Previously discussed, see Old Business item b

j) Jackie cancelled 800 number, internet service at office, cancelled tablet and hotspot service, downgraded phone plan to 2GB/month, Stamps.com, disconnected 2 (of 3) office phone lines. Saving around \$200/month. – No discussion needed. Avast agreed to extend our service until end of 2019.

*cont.*



- k) Should we have an email address to president@kaps1.com so that all of our presidents have the same email address? – Yes. No vote needed
- l) KAMP offered KAPS a booth at their conference (Bowling Green Oct 23-25)
- m) NSPS dues – Honorary members and student members do not get NSPS dues paid. Kevin Phillips made a motion to write a check to NSPS for all current paid members, and Don Pedigo. Jason Graves seconded. Motion carried.
- n) Policy for presidential leave – Already in bylaws
- o) KAPS Facebook page – Tim Tong and Jackie will provide updates to the Facebook page.
- p) Event coordinator – Pam brought the board up to speed on where she was with fall seminars. Refunds were discussed. Fee clarification was needed and provided. Pam inquired as to see if fall seminars can be posted when they are confirmed. Jackie Hawkins said that it was possible. Pam brought up having “bundles” for vendors.

**EX-OFFICIO DIRECTORS REPORTS**

No reports were given from the GIAC Liaison, KY State Board of Licensure Liaison, NSPS Director, and Professional Development Chair.

**KAMP Liaison** – no report. Jason Graves has been in discussion with Stephen Chino about filling this position.

**KSPE Liaison** – no report. Need to find a new Liaison.

**CHAPTER REPORTS**

No reports were given from the Barren River, Bluegrass-Capitol, Green River, Highlands, Northeast (inactive), Purchase, or Southeast chapters.

**Audubon** – no written report. Three members attended last meeting.

**Falls of the Ohio** – no written report. Discussion focused on honoring long-serving KAPS members at the 2019 conference.

**Northern Kentucky** – no written report. Tom Bushelman reported that their chapter has initiated a contest to encourage attendance to meetings. All members get their name in a hat for attending a meeting. Extra tickets in the hat for attending other chapters meetings. At the end of the year a name is drawn from the hat and that person will have their KAPS membership paid for by the chapter.

**COMMITTEE REPORTS**

No reports were given from By-Laws, County Surveyors, Education, Ethics and Professional Practice, Finance, Membership, Nominating, Past Presidents, Policy Manual, Public Relations, and Publications/Newsletter.

**Annual Conference** – No written report.

**Annual Golf Outing and Picnic** – no report. Will likely be in Bardstown.

**Legislative** – no report. Kevin Phillips reported that KAPS has not paid Government Strategies for any service this year.

**Scholarship** – John St. Clair’s report was read and accepted.

**SPECIAL COMMITTEE REPORT**

**KY / TN State Line Monument** – no report

**Board of Licensure Nominations** – no written report. Board opening will be coming this fall.

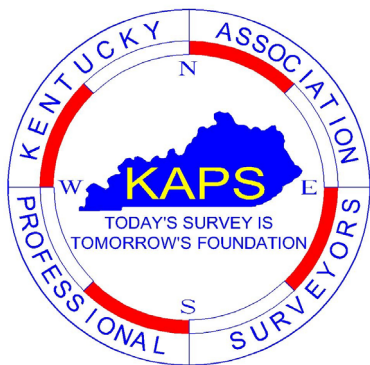
**Continuing Education Hours** – Nick Jerdon reported that Government Strategies thinks this may pass if we can come up with something that we all agree on.

**KAPS/KAMP Joint Conference Committee** – Jason Graves let everyone know that he had a phone conversation with Stephen Chino (KAMP President-Elect) and Mr. Chino told Jason that the idea was not dead, with KAMP, but would like to experiment with smaller joint ventures to begin with and build upon that due to logistical issues.

**ADJOURNMENT**

Jason Graves made a motion to adjourn. Mike Ladnier seconded. Motion carried. Meeting adjourned.

Submitted by Jason Graves, PLS, Secretary  
Edited by Diane Comer



# KAPS 2019 MEMBERSHIP APPLICATION

Please send completed form to: Email - [jackie@kaps1.com](mailto:jackie@kaps1.com)  
 USPS - KAPS • P.O. Box 211418, Louisville, KY 40221  
 Register online at [www.kaps1.com](http://www.kaps1.com)

Name \_\_\_\_\_ Spouse \_\_\_\_\_

KY County \_\_\_\_\_ Chapter \_\_\_\_\_ KY PLS # \_\_\_\_\_ Birthdate \_\_\_\_\_

Home Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Email Address \_\_\_\_\_ Highest Degree \_\_\_\_\_

Home Phone \_\_\_\_\_ Cell Phone \_\_\_\_\_

If you are NOT a resident of Kentucky, are you a member of your state survey association?  YES  NO

Business Name \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Business Website \_\_\_\_\_ Business Phone \_\_\_\_\_

Notification Preference:  Email  USPS to Home  USPS to Business

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

- Associate Member \$ 97.50
- Business Member \$ 390.00
- Corporate Member\* \$ 390.00
- First Licensed Year Mbr \$ 0.00
- Full Member (Jan – Dec) \$ 220.00
- Lifetime Full Member \$4,400.00
- Student Member \$ 0.00
- Other: \_\_\_\_\_ \$ \_\_\_\_\_

<input type="checkbox"/> Check Enclosed or <input type="checkbox"/> Invoice Me at _____ Email Address (Please do not include your credit card number on this form) _____ <small>There is an order fee added to all credit card and PayPal payments. Save money by sending a check!</small>	
<b>For Office Use Only</b>	
Check # _____	Amount Paid: \$ _____
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Name if different than Registrant: _____	
_____	

**SEE REVERSE 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.

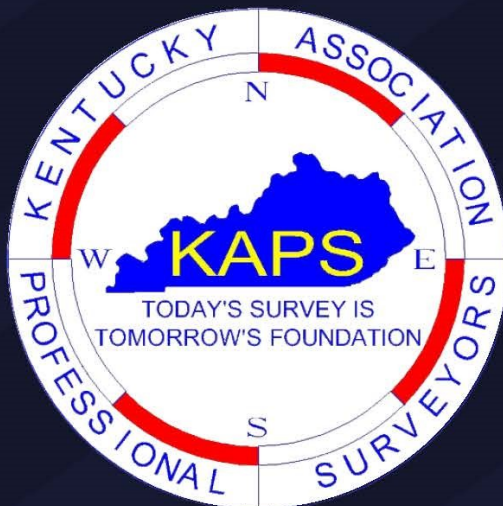
# THE MEASUREMENT OF TOMORROW

## Kentucky Association of Professional Surveyors Annual Conference

February 7-9, 2019

Holiday Inn  
Louisville East

KAPS is more than where you get your continuing education. We are a community created by and for surveyors. Join us for the camaraderie, community, and commitment to your profession.



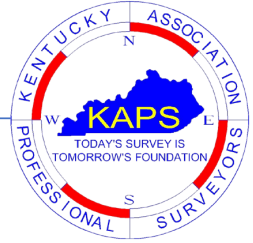
KAPS is a proud affiliate of the  
National Society of Professional Surveyors



Register online at [www.kaps1.com](http://www.kaps1.com)

## Kentucky Association of Professional Surveyors

P.O. Box 211418 \* Louisville, Kentucky 40221 \* (502) 695-2349



December 8, 2018

Dear Surveyors, Vendors, and Guests:

I would like to extend an invitation for you to join KAPS at our annual conference to be held on Thursday, February 7 through Saturday, February 9, 2019. Early registration will begin on Wednesday with seminars being held on Thursday, Friday and Saturday. For 2019, we will be at the Holiday Inn Louisville East in Louisville, Kentucky.

I encourage each of you to take advantage of this opportunity to join in fellowship with your colleagues from across the state. Attending the conference offers an excellent opportunity to discuss surveying with a group of people who understand and experience your interests and concerns about our profession.

In addition to the camaraderie with fellow surveyors, you also have the opportunity to attend continuing professional development courses covering subjects such as boundary law, new technologies, ethics, and more. We have a great set of presenters arranged for the year and they have really put together some useful information for those in attendance to learn from.

If you plan to attend the conference and are not currently a KAPS member, please look into joining. KAPS presents a very strong voice for the entire surveying profession within Kentucky. Your membership in KAPS also includes membership in the National Society of Professional Surveyors. With this dual membership, you can stay informed and voice your opinion concerning issues affecting surveying locally and nationally. KAPS also hosts fall seminars for continuing professional development courses, monthly or bi-monthly meetings throughout Kentucky, education outreach to middle and high school students, and discounts on most KAPS functions.

I would like to extend a huge THANK YOU to the KAPS conference committee; Mike Ladnier, Kevin Phillips, James Mayo, Greg Barker, Jason Graves, and especially Jackie Hawkins for arranging the conference. The work performed behind the scenes in order to put on a conference is IMMENSE. I do not think anyone can fully appreciate how much effort it takes to get everything lined up until they help make these arrangements. We could not do this without our volunteers on the Conference Committee!

I hope you will join me at our 2019 conference themed "The Measurement of Tomorrow." I am confident this year's conference will be an excellent opportunity to accomplish that goal with the seminars we have lined up.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick Jerdon'.

Nick Jerdon, PLS  
KAPS President  
President@KAPS1.com





# THE MEASUREMENT OF TOMORROW

## Kentucky Association of Professional Surveyors Annual Conference

February 7-9, 2019

Holiday Inn Louisville East

Reserve your hotel room by calling 1-502-426-2600 or reserve online through our custom link:  
<https://www.holidayinn.com/redirect?path=hd&brandCode=HI&localeCode=en&regionCode=1&hotelCode=SDFEA&PMID=99801505&GPC=V8Z&viewfullSite=true>  
 Be sure to mention the Kentucky Association of Professional Surveyors (KAPS) 2019 Annual Conference  
 Block Code V8Z for preferred room rates when making your reservations.  
**The cutoff date for preferred room rates is 11:59 P.M. EST, Wednesday, January 15, 2019.**

## Schedule at a Glance

### Wednesday, February 6

3:00 - 7:00 P.M. EST	Exhibitor Setup
6:00 P.M. EST	2018 KAPS Board of Directors Meeting

### Thursday, February 7

7:00 A.M. EST	Registration Opens
7:00 A.M. - 6:00 P.M. EST	*EXHIBITS OPEN*
8:00 A.M. - 12:00 P.M. EST	Technical Sessions
12:00 P.M. - 2:00 P.M. EST	Luncheon & Installation of Officers
2:00 P.M. - 6:00 P.M. EST	Technical Sessions
6:00 P.M. - 7:30 P.M. EST	Exhibitors Reception & Door prizes
7:30 P.M. - 8:00 P.M. EST	2019 KAPS Board of Directors Meeting
6:30 P.M. - 12:00 A.M.	Hospitality Suite

### Friday, February 8

7:00 A.M. EST	Registration Opens
7:00 A.M. - 3:00 P.M. EST	*EXHIBITS OPEN*
8:00 A.M. - 12:00 P.M. EST	Technical Sessions
12:00 P.M. - 2:00 P.M. EST	Luncheon & General Membership Meeting
2:00 P.M. - 6:00 P.M. EST	Technical Sessions
6:30 P.M. - 7:00 P.M. EST	Photo Sessions
7:00 P.M. - 9:30 P.M. EST	Awards Banquet
9:30 P.M. - 12:00 A.M. EST	Hospitality Suite

### Saturday, February 9

7:00 A.M. EST	Past-President's Breakfast
8:00 A.M. - 5:00 P.M. EST	Technical Sessions
12:00 P.M. - 1:00 P.M. EST	Lunch Included

# 2019 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 THE TECHNICAL SESSIONS YOU WISH TO ATTEND ON REVERSE  
OR ONLINE REGISTRATION IS AVAILABLE AT [www.kaps1.com](http://www.kaps1.com)**

*No printed handouts will be distributed. All available course material will be available at [www.kaps1.com](http://www.kaps1.com).*

NAME \_\_\_\_\_ NAME FOR BADGE \_\_\_\_\_

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 <b>Thursday Lunch Entrée</b> (select one) <input type="checkbox"/> Chicken Marsala <input type="checkbox"/> Open Faced Pot Roast <b>Dessert</b> (select one) <input type="checkbox"/> Chocolate Layer Cake <input type="checkbox"/> Lemon Layer Cake <b>Friday Banquet Entrée</b> (select one) <input type="checkbox"/> London Broil <input type="checkbox"/> Grilled Salmon <b>Dessert</b> (select one) <input type="checkbox"/> Apple Pie <input type="checkbox"/> Derby Pie <b>Saturday Lunch Entrée</b> (select one) <input type="checkbox"/> Turkey <input type="checkbox"/> Meatloaf <b>Dessert</b> (select one) <input type="checkbox"/> Carrot Cake <input type="checkbox"/> Red Velvet Cake	\$350.00	\$625.00 <i>(*includes option to become a member; NOT for current members)</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 <b>Thursday Lunch:</b> <b>Friday lunch is a Southern Favorites Buffet</b> <b>Entrée</b> (select one) <input type="checkbox"/> Chicken Marsala <input type="checkbox"/> Open Faced Pot Roast <b>Dessert</b> (select one) <input type="checkbox"/> Chocolate Layer Cake <input type="checkbox"/> Lemon Layer Cake	\$220.00	\$320.00	
<b>SATURDAY ETHICS, CODE OF CONDUCT, &amp; STANDARDS SESSION ONLY</b> <b>Saturday Lunch Entrée</b> (select one) <input type="checkbox"/> Turkey <input type="checkbox"/> Meatloaf <b>Dessert</b> (select one) <input type="checkbox"/> Carrot Cake <input type="checkbox"/> Red Velvet Cake	\$185.00	\$185.00	
<b>FULL-TIME STUDENT REGISTRATION</b> Thursday & Friday only (does not include meals)	\$0.00	per day \$25.00	
<b>EXHIBIT PASS ONLY &amp; TECHNICIAN CLASSES</b> no credit	\$30.00	\$40.00	
<b>EXTRA MEALS for THURSDAY</b> Please select one entrée & one dessert: <b>Thursday Lunch Entrée</b> (select one) <input type="checkbox"/> Chicken Marsala <input type="checkbox"/> Open Faced Pot Roast <b>Dessert</b> (select one) <input type="checkbox"/> Chocolate Layer Cake <input type="checkbox"/> Lemon Layer Cake	\$30.00	\$35.00	
<b>EXTRA MEALS for FRIDAY</b> Please mark below the extra meals needed: <input type="checkbox"/> <b>Friday Lunch</b> Southern Favorites Buffet \$35/\$40 <input type="checkbox"/> <b>Friday Evening Banquet</b> (coat & tie event) \$55/\$60 <b>Entrée</b> (select one) <input type="checkbox"/> London Broil <input type="checkbox"/> Grilled Salmon <b>Dessert</b> (select one) <input type="checkbox"/> Apple Pie <input type="checkbox"/> Derby Pie	\$35.00 \$55.00	\$40.00 \$60.00	
<b>EXTRA MEALS for SATURDAY</b> Please select one entrée & one dessert: <b>Saturday Lunch Entrée</b> (select one) <input type="checkbox"/> Turkey Plate <input type="checkbox"/> Meatloaf <b>Dessert</b> (select one) <input type="checkbox"/> Carrot Cake <input type="checkbox"/> Red Velvet Cake	\$30.00	\$35.00	
<b>TOTAL REGISTRATION AND EXTRAS</b>			\$
<b>ADD LATE FEE</b> (if postmarked after January 23, 2018)	\$30.00	\$50.00	
<b>GRAND TOTAL DUE TO KAPS</b>			\$

CHECK PAYABLE TO KAPS ENCLOSED (mail to KAPS, P.O. Box 211418, Louisville, KY 40221)

EMAIL ADDRESS \_\_\_\_\_ for CREDIT CARD and/or PAYPAL (email to Jackie@kaps1.com)

**\*CLEARLY MARK THE TECHNICAL SESSIONS YOU WISH TO ATTEND  
OR REGISTER ONLINE AT [www.kaps1.com](http://www.kaps1.com)**

*No printed handouts will be distributed. All available course material will be available at [www.kaps1.com](http://www.kaps1.com).*

<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 8:00 A.M. - 12:00 P.M. EST	<b><i>Graphic Design Elements for Modern Survey Plats</i></b> 4 PDH; Course #applying for approval; Presenter - Ben Shinaberry, PLS
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 8:00 A.M. - 9:00 A.M. EST	<b><i>Crashing into Field to Finish</i></b> 1 PDH; Course #applying for approval; Presenter - Jason Graves, PLS
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 8:00 A.M. - 10:00 A.M. EST	<b><i>Imaging Total Stations; Improve Productivity and Profitability</i></b> 2 PDH; Course #17-01-027; Presenter - Steve Myer
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 9:00 A.M. - 10:00 A.M. EST	<b><i>Duke Energy: Transmission Rights of Ways</i></b> 1 PDH; Course #applying for approval; Presenter - Ryan Daugherty
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 10:00 A.M. - 12:00 P.M. EST	<b><i>Licensure Board Panel Discussion</i></b> 2 PDH; Course #18-01-008; Presenter - various BOL members and staff
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 10:00 A.M. - 12:00 P.M. EST	<b><i>Adverse Possession, Acquiescence, &amp; Boundary Line Agreements: Responsibilities of the Surveyor to Preserve Evidence</i></b> 2 PDH; Course #applying for approval; Presenters - Brent Webster PLS, Esq.
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 2:00 P.M. - 6:00 P.M. EST	<b><i>New Datums for the Nation</i></b> 4 PDH; Course #applying approval; Presenter - Jeff Jalbrzikowski PS, GISP
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 2:00 P.M. - 4:00 P.M. EST	<b><i>Changing a City's Boundary, the Surveyor's Role</i></b> 2 PDH; Course #applying for approval; Presenter - Kandie Adkinson
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 2:00 P.M. - 6:00 P.M. EST	<b><i>Forensic Surveying</i></b> 4 PDH; Course #17-10-074; Presenter - Frank Willis, PhD, PE, PLS
<b>Thursday, February 7, 2019</b> <input type="checkbox"/> 4:00 P.M. - 6:00 P.M. EST	<b><i>Base Survey Files Throughout the Life of a Project</i></b> 2 PDH; Course #applying for approval; Presenter - Matt McLaren, PE
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 8:00 A.M. - 10:00 A.M. EST	<b><i>The Natural Hierarchy of Surveying and the Misuse of it, and Surveying Issues Associated with the BLM Manual of Instructions</i></b> 2 PDH; Course #applying for approval; Presenters - Frank Willis, PhD, PE, PLS
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 8:00 A.M. - 10:00 P.M. EST	<b><i>Online Mapping Data Sources</i></b> 2 PDH; Course #applying for reapproval; Presenter - Jonathan Payne, PLS
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 10:00 A.M. - 12:00 P.M. EST	<b><i>Kentucky Revised Statutes – Two Planner's Perspective on Land Use</i></b> 2 PDH; Course #applying for approval; Presenters - Brian Davis, AICP
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 10:00 A.M. - 12:00 P.M. EST	<b><i>Mr. Ethics</i></b> 2 PDH; Course #applying for approval; Presenters - Frank Willis, PhD, PE, PLS
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 8:00 A.M. - 12:00 P.M. EST	<b><i>Law of Easements: Legal Issues &amp; Practical Considerations in KY</i></b> 4 PDH; Course #18-01-003; Presenter - Chris Wischer
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 8:00 A.M. - 12:00 P.M. EST	<b><i>Standards of Practice, Ethics, &amp; Code of Conduct</i></b> 4 PDH; Course #17-01-002; Presenter - Chris Gephart, PLS
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 2:00 P.M. - 6:00 P.M. EST	<b><i>Trimble Business Center Tips &amp; Tricks</i></b> 4 PDH; Course #applying for approval; Presenter - Tim Tong, PLS
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 2:00 P.M. - 6:00 P.M. EST	<b><i>Soaring to New Heights: UAV Fundamentals for Land Surveyors</i></b> 4 PDH; Course #applying for approval; Presenter - Steve Chino, PLS
<b>Friday, February 8, 2019</b> <input type="checkbox"/> 2:00 P.M. - 6:00 P.M. EST	<b><i>Surveying Lessons Learned While Laser Scanning</i></b> 4 PDH; Course #17-01-026; Presenter - Ben Shinaberry, PLS
<b>Saturday, February 9, 2019</b> <input type="checkbox"/> 8:00 A.M. - 5:00 P.M. EST	<b><i>Ethics, Code of Conduct, &amp; Standards of Practice</i></b> 8 PDH; Course #15-07-050; Presenter - Jonathan Payne, PLS

# The Measurement of Tomorrow

## THURSDAY SESSIONS

*No printed handouts will be distributed. All available course material will be available at [www.kaps1.com](http://www.kaps1.com).*

### *Graphic Design Elements for Modern Survey Plats*

**8:00 A.M. - 12:00 P.M.; 4 PDH; Course #applying for approval; Presenter - Ben Shinaberry, PLS**

For hundreds of years land surveyors have been graphically communicating land descriptions, boundaries, and topographic features by using survey plats. Land surveyors have well-developed skills outdoors finding property boundary evidence, measuring azimuth and distance, locating stakes, monuments, buildings, drains and ridge lines. We have been trained to calculate traverse closure, area, relative positional accuracy and ground scale factors; but in many cases, we have not learned effective ways to format information in a readable, understandable, or aesthetic way on our survey plats. There are current plat standards regulating the content shown on survey plats, yet not many apply to the way the plat may be formatted or presented. CAD systems provide assistance in producing survey plats that meet state requirements, but often times, the default settings on these CAD platforms hinder the intended communication. Surveyors should not settle for plain, dull, confusing survey plats. Our clients are looking for more. Our profession needs to expect a higher quality of survey plat design. We should value our work to the extent that we are compelled to deliver beautiful, readable, understandable survey plats. In this course, we will look at graphic design methods to improve the communication of our survey plats. How do fonts affect how a reader understands text on a page? What elements draw someone's attention? Where does a person start reading a page? What visually associates graphics and text without a person realizing it? These and other questions will be answered by a Kentucky land surveyor and graphic designer throughout this four hour graphic design training course. CAD tips and tricks will be given for multiple CAD platforms to help format and render all types of surveys. Learn how to take your survey plats and turn them into land survey artwork that will be noticed by your colleagues and clients.

### *Crashing into Field to Finish*

**8:00 A.M. - 9:00 A.M.; 1 PDH; Course #applying for approval; Presenter - Jason Graves, PLS**

This is a one hour crash course on Field To Finish. We will cover the functions, reasons to use, and parts of field to finish. We will learn how to develop codes, how to build a file for the office, and how to use command codes. We will go over examples, and have a Q&A session. This class will get you started on using field to finish.

### *Imaging Total Stations; Improve Productivity and Profitability*

**8:00 A.M. - 10:00 A.M.; 2 PDH; Course #17-01-027; Presenter - Steve Myer**

Show surveyors how they can increase productivity and profitability by adding the collection of images to their survey workflow.

### *Duke Energy: Transmission Rights of Ways*

**9:00 A.M. - 10:00 A.M.; 1 PDH; Course #applying for approval; Presenter - Ryan Daugherty**

The transmission power line industry has changed significantly in recent years. Due to these changes, utility companies such as Duke Energy must protect their network of transmission lines and recorded easements. One of the ways to do so is by taking a proactive approach. We often reach out to builders, developers, and surveyors to educate them about our easements.

### *Licensure Board Panel Discussion*

**10:00 A.M. - 12:00 P.M.; 2 PDH; Course #18-01-008; 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.

### *Adverse Possession, Acquiescence, & Boundary Line Agreements: Responsibilities of the Surveyor to Preserve Evidence*

**10:00 A.M. - 12:00 P.M.; 2 PDH; Course #applying for approval; Presenters - Brent Webster PLS, Esq.**

The land surveyor is frequently called upon to give advice and testimony on boundary disputes. This class will focus primarily on discussion of the land surveyor's role to document and preserve evidence relating to Adverse Possession, Acquiescence, and Boundary Line agreements. Using practical application and real world examples we will examine the role of the land surveyor as a consultant and how best to advise and assist clients and their representatives moving forward.

### *New Datums for the Nation*

**10:00 A.M. - 12:00 P.M.; 4 PDH; Course #applying approval; Presenter - Jeff Jalbrzikowski PS, GISP**

This seminar will introduce NGS overall including current products and services. We will cover Horizontal Datum including Terrestrial Reference Frame (NATRF2022), Dynamic planet, stable coordinates, IGS, ITRF, Euler Poles and parameters, IFVM. We will then cover Vertical Datum including Geopotential Datum (NAPGD2022). We will have an Intro to "geoid" with no jargon with a goal of demystifying. We will also cover Gravimetric Geoid, Hybrid Geoid, NGS Geoid Models webpage, NAVD88 and GEOID18, and GRAV-D – progress, process. We will move on to State Plane Coordinates for the future (SPCS2022), the History of SPCS, why it is important, Fitment to topographic surface as opposed to ellipsoid, "linear distortion" terminology (ground v. grid), and NGS Policy and Procedures. Then we will discuss NGS Webtools live walk-thru/demo and tips and tricks, NGS Coordinate Conversion and Transformation Tool (NCAT), Online Positioning User Service (OPUS), OPUS S and RS, OPUS Shared solutions, OPUS Projects – a look into a project, and Geoid Models datasets, incl. ArcGIS tool. We will end with Discussions and Q&A.

# The Measurement of Tomorrow

## THURSDAY SESSIONS

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### *Changing a City's Boundary, the Surveyor's Role*

**2:00 P.M. - 4:00 P.M.; 2 PDH; Course #applying for approval; Presenter - Kandie Adkinson**  
Course Description will be included soon.

### *Forensic Surveying*

**2:00 P.M. - 6:00 P.M.; 4 PDH; Course #17-10-074; Presenter - Frank Willis, PhD, PE, PLS**

A four-hour seminar that addresses techniques for conducting forensic surveying, deposition testimony, trial testimony, legal tactics, scientific approaches, and interesting examples presented in six actual example cases.

### *Base Survey Files Throughout the Life of a Project*

**4:00 P.M. - 6:00 P.M.; 2 PDH; Course #applying for approval; Presenter - Matt McLaren, PE**

A two hour discussion about what happens to your deliverable, PDF and CAD, once you hand it off to your client (engineer/designer). The class will focus on what designers do with and to your survey throughout the project from entitlements, preliminary design, construction drawing, construction, and as-builts. The class will cover what engineers find beneficial to receive from the surveyor and what both parties can do to close the expectation gap from initial scope and fee through final project close out.

# The Measurement of Tomorrow

## FRIDAY SESSIONS

*No printed handouts will be distributed. All available course material will be available at [www.kaps1.com](http://www.kaps1.com).*

### *The Natural Hierarchy of Surveying and the Misuse of it, and Surveying Issues Associated with the BLM Manual of Instructions*

**8:00 A.M. - 10:00 A.M.; 2 PDH; Course #applying for approval; Presenters - Frank Willis, PhD, PE, PLS**

A two-hour seminar addressing the natural priority of monuments, often referred to as the Natural Hierarchy. Red herrings and confusing natural monuments will be presented. A brief discussion about the BLM Manual of Instructions will be conducted. Several significant cases will be presented.

### *Online Mapping Data Sources*

**8:00 A.M. - 10:00 A.M.; 2 PDH; Course #applying for reapproval; Presenter - Jonathan Payne, PLS**

An exploration of online sources of information for aerial photography, topographic quad sheets, digital elevation models, county road maps, and other spatial data.

### *Kentucky Revised Statutes – Two Planner's Perspective on Land Use*

**10:00 A.M. - 12:00 P.M.; 2 PDH; Course #pending approval; Presenter - Brian Davis, AICP**

A look at how the Kentucky Revised Statutes govern local planning activities and how they impact both the local planner and surveyor. The session will look at how communities, while still operating under the same statutes, may have different regulations, how those regulations can be changed, and who's responsible for making those changes.

### *Mr. Ethics*

**10:00 A.M. - 12:00 P.M.; 2 PDH; Course #applying for approval; Presenters - Frank Willis, PhD, PE, PLS**

A two-hour ethics class designed to reduce boredom to a minimum! The class is designed to apply to ethics CEU credits. Class participation is encouraged. Examples of unsuspected ethics violations will also be discussed. This class is not simply a review of ethics rules.

### *Law of Easements: Legal Issues & Practical Considerations in KY*

**8:00 A.M. - 12:00 P.M.; 4 PDH; Course #18-01-003; Presenter - Chris Wischer**

We will discuss some of the different categories of easements, e.g. the difference between easements appurtenant and easements in gross or the various types of utility easements. We will discuss the various ways easements may be created, e.g. by express grant, by necessity, by dedication on a plat, dedication by written instrument, by eminent domain, by implication. We will also discuss the scope of the easement. We will discuss the various ways easements can be terminated, such as abandonment, express termination, expiration of term. We will discuss the eminent domain process, in particular how a proper and good survey is critical to successful completion of an acquisition of an easement by eminent domain. We will discuss the various methods an owner of the easement may enforce his or her rights.

# The Measurement of Tomorrow

## FRIDAY SESSIONS

*No printed handouts will be distributed. All available course material will be available at [www.kaps1.com](http://www.kaps1.com).*

### *Standards of Practice, Ethics, & Code of Conduct*

**8:00 A.M. - 12:00 P.M.; 4 PDH; Course #17-01-002; Presenter - Chris Gephart, PLS**

Seminar Topics: focus on the Standards of Practice - KRS & KAR, our responsibility to protect the public; KRS Chapter 322 - definitions, exceptions, licensure requirements, investigation / complaints, makeup of the board & qualifications; Code of Professional Practice and Conduct - definitions, conflict of interest, records retention, qualifications / competence, direct supervision; Standards of Practice - history of the Standards, five most common Standards of Practice deficiencies, definitions, classifications of surveys, measurement specifications, monumentation, Section 13 non-boundary survey work; Q&A

### *Trimble Business Center Tips & Tricks*

**2:00 P.M. - 6:00 P.M.; 4 PDH; Course #applying for approval; Presenter - Tim Tong, PLS**

Attendees will gain knowledge of what Trimble Business Center (TBC) is, and what this powerful program can do for you. Topics will include; project creation, Trimble Sync Manager, data editing, traverse adjustments, static post processing, importing NGS data (OPUS & datasheets) & RTX solutions, network adjustments, QA/QC of data, and final exports; live demo; Q&A session.

### *Soaring to New Heights: UAV Fundamentals for Land Surveyors*

**2:00 P.M. - 6:00 P.M.; 4 PDH; Course #applying for approval; Presenter - Steve Chino, PLS**

This presentation will discuss what land surveyors need to know before becoming a licensed UAV/UAS operator. We will discuss emerging trends in UAV technology, as well as real-world applications for UAV technology. The presentation will also cover land surveying applications of UAV technology. Real-world examples with flight demonstrations will be provided weather permitting.

### *Surveying Lessons Learned While Laser Scanning*

**2:00 P.M. - 6:00 P.M.; 4 PDH; Course #17-01-026; Presenter - Ben Shinabery, PLS**

Laser scanning has been around for several years now and there have been many technical presentations of how scanning works. Laser scanning is great, but is it really worth the investment? How can I make a reasonable profit using a scanner? Which scanners are better for land surveyors? Are the file sizes going to be too big for my CAD station? Can I use scan data with my GPS on project coordinates? These are valid questions that have direct impact on how we survey in the field and manage our delivered projects out the door. Many times the people answering the questions are salesmen who know their product and hope you will too. From one Kentucky surveyor to other Kentucky surveyors, this seminar will answer the questions from the perspective of someone who has pulled chain. Experience is useful when we share it with our fellow associates for the betterment of our profession. If there are advances that help us all as surveyors, we should be talking about the lessons learned in an open forum with honest feedback. We all have heard the cliché, "Learn from your mistakes." During this session you will have the opportunity to "learn from someone else's mistakes" with laser scanning.



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Conference Entertainment by  
**THE BOXWOOD BROTHERS**

February 16, at the Conference Banquet

## SATURDAY SESSIONS

*No printed handouts will be distributed. All available course material will be available at [www.kaps1.com](http://www.kaps1.com).*

### *Ethics, Code of Conduct, & Standards of Practice*

**8:00 A.M. - 6:00 P.M.; 8 PDH; Course #15-07-050; 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

# MEET THE SPEAKERS

**Kandie Adkinson** is a native of Mercer County, Kandie attended the University of Kentucky and Eastern Kentucky University. She was employed by the Kentucky Historical Society Preservation Lab for over six years--researching, laminating and microfilming Kentucky Land Grant Records. In July 1984 Kandie accepted employment with the Secretary of State's Land Office. Her primary duties consist of researching and copying land records for surveyors and title companies involved in mineral litigation as well as genealogists and historians studying early Kentucky. She also receives and approves all filings pertaining to Kentucky Cities integrating the information onto the Kentucky Cities page of the Secretary of State's Land Office website. Recognizing the need to share the significance of the land patent records, she developed a presentation, including visuals, for a wide research base. She has served as a course instructor for various seminars in Kentucky, Ohio, Indiana, Alabama, Virginia, Tennessee, and West Virginia. She was been an honorary member of the Kentucky Association of Professional Surveyors since 1995.

**Stephen C. Chino, Jr., PLS** is the Director of Information Technology for the city of Paducah and has been involved with GIS/GPS work and projects since 1997. He graduated from Grayson County High School in 1994 and received his Bachelor of Science in Geography from Western Kentucky University in 1999. While there his major emphasis was in GIS/GPS technology with a minor in City and Regional Planning. He began interning with the Barren River Area Development District in Bowling Green, Kentucky in 1998 in the GIS/GPS department and in 2000 he accepted a full time position with the BRADD as their Public Administration Specialist. In July 2001 he accepted a surveying technician position with Hunter Martin & Associates in Paducah, Kentucky. While with HMA, Inc. Mr. Chino successfully obtained his Professional Surveying license for the state of Kentucky in 2008. In December of 2011, Mr. Chino accepted the GIS Specialist position with the City of Paducah and was promoted to GIS Manager in the fall of 2016. In July of 2018 he was named Director of the Information Technology Department. He has practiced in the GIS/Geomatics field for 19 years and has been a licensed Kentucky land surveyor for 9 years and a licensed UAV pilot for 1 year. Mr. Chino resides in McCracken County, Kentucky with his wife Sheryl, son Aiden (10) and daughter Olivia (4).

**Ryan Daugherty** has a bachelor's degree from Indiana University in Natural Resource Management. Prior to working at Duke Energy, he spent 10 years working in this field for both State and Federal agencies (U.S. Forest Service, Dept. of Natural Resources). He also has a Master's Degree from Aurora University.

**Brian Davis, AICP** is a Planning Manager for Louisville Metro Planning & Design. During his 18 year professional career he has also worked for Oldham County Planning & Development, where he spent four years as the Assistant Director. He has a B.S. and M.S. in Geography with an Emphasis in City & Regional Planning from Western Kentucky University and has been a member of the American Institute of Certified Planners since 2005. Brian is currently the Professional Development Officer of the American Planning Association – Kentucky Chapter.

**Chris Gephart, PLS** has been involved in the surveying industry since 1989 and has experience in a variety of applications including: boundary location/retracement, ALTA/ACSM, topographic, aerial mapping, control and construction layout/staking. Chris is the Vice President of Land Surveying Services and oversees all aspects of the survey work at the Ft. Mitchell office of Bayer Becker from initial client contact and site reconnaissance to the finished record maps or plats. He has extensive experience in boundary survey work including records research, field data acquisition, resolution, property descriptions and platting. Chris has completed surveys for residential subdivisions, industrial parks, retail and commercial centers, utility corridors, and roadway alignments. He has also worked as an expert witness in boundary dispute cases. Chris is a Licensed Professional Surveyor in the Commonwealth of Kentucky. He was President of the Kentucky Association of Professional Surveyors (KAPS) in 2004 and currently serves as Liaison to the Kentucky Board of Licensure for Engineers and Land Surveyors. He received the "Surveyor of the Year" award in 2000 and was an integral part of the team that had legislation passed in early 2005 that would require all future Kentucky surveyors to have a bachelor's degree in order to become licensed. Chris is also a 2007 graduate of Leadership Northern Kentucky.

**Jason Graves, PLS** is a Professional Land Surveyor with Century Land Surveying, LLC. His daily duties include developing work flow strategies, business growth strategies, training and other duties typical for a land surveyor. Jason began his surveying career in 2001 and obtained his license in 2011. He is fluent with most surveying technologies and enjoys learning whenever he can. The thing that Jason enjoys most about land surveying is retracing boundaries in the older areas of Louisville Kentucky. Jason has amassed historic survey records, for Louisville, dating back to at least 1850. These records have provided Jason with an intimate knowledge of how land surveyors in Louisville would break down city blocks and the monuments typically used for by company during certain time frames. In his free time Jason enjoys spending time behind his boat wake-surfing, in the woods hiking or on bike, but mostly he enjoys spending time with his wife, their three children, and their three dogs.

**Jeff Jalbrzikowski, PS, GISP** is the Appalachian Regional Geodetic Advisor with the National Geodetic Survey. He began his geospatial career when he enlisted in the U.S. Army as a Field Artillery Surveyor. He's had stints with a land development firm performing construction and boundary surveys, as a cadastral surveyor with the BLM, as a GIS technician with multiple employers, and as a land and hydrographic surveyor with the U.S. Army Corps of Engineers Pittsburgh District. Jeff is a licensed surveyor in Ohio, Pennsylvania, and West Virginia, and is a certified GIS Professional.

**Matt McLaren, PE** is an Associate with Gresham Smith and serves as the Senior Civil Engineer for the Louisville land Planning office. For over 15 years, Matt has focused on all aspects of land development ranging from entitlements to construction administration. His project experience has been across much of the southeast and has included a wide range of projects including infill mixed-use, green field subdivision, industrial, and transportation work. Throughout his career, he has focused heavily on storm water management given the ever changing regulatory environment. He holds a BS in Civil Engineering and MS in Construction Management from the University of Kentucky.

**Steve Myer** I have spent a long career in all aspects of land surveying - field, office, and technology sales. I've performed hydrographic surveys, and flood plane mapping for the Indiana Department of Natural Resources, and I've handled project management and construction surveying with a consulting firm in the Lafayette area. I have nearly 25 years experience in equipment sales, support and training. Now I'm happy to be representing Leica Geosystems and an excellent range of highest quality survey solutions. The sum of these experiences gives me unique and powerful insight into the actual needs of Indiana survey firms. I focus on providing you with the best possible equipment, software, and training solutions for your particular business needs, and on keeping those solutions working at peak efficiency so that you can focus on your client's needs and keeping your business profitable. Nearly 30 years of experience - AS degree in Surveying Technology from Vincennes University. - AS degree in Architectural Drafting from Vincennes University. - Nearly 30 years in the survey and survey support industry. - Specializing in high-end measurement equipment sales. - Expertise focused on Indiana, and Indiana surveying. I listen to your business needs with an understanding based on my long and varied Indiana surveying career and help you to make the best decisions possible in the very complex world of high-end survey equipment. Equipment, training and software choices make big differences in your day-to-day work life, and I'm able to point out opportunities and pitfalls based on my actual experience working with the equipment I represent. With the right solutions, you can run your business more enjoyably and profitably, and build a reputation for quality service that adds tremendous value over time.

**Jonathan Payne, PLS** runs a private surveying consulting firm in Trigg County Kentucky. He has been licensed as a Professional Land Surveyor since June of 2000. His journey to becoming licensed began while working on a BS degree in Civil Engineering Technology and a MS degree in Engineering Technology from Murray State University. This was followed by several years working, in a supervised capacity, for firms in Western Kentucky in areas of boundary, transportation, and subdivision surveys. After achieving licensure, Jonathan began his own small surveying firm. In private practice, he has concentrated on boundary retracement and subdivision surveys. Having taken a brief break from private practice, Jonathan served as the instructor of record for the surveying courses at Murray State University from August 2013 until May 2017. Back in private practice, Jonathan is pursuing a PhD in Education from the University of Kentucky. Jonathan has served KAPS in a variety of positions ranging from committee member to President over the past years and present seminars when needed for the organization.

**Ben Shinabery, PLS** is a land survey project manager at Qk4, Inc. where he specializes in high definition digital terrain modeling through traditional survey, 3D Laser Scanning and Aerial Drone Mapping. He grew up helping his dad survey through the corn fields in Michigan and later running a field crew in the swamps of Florida – Full spectrum land surveying: cold and frozen to hot and humid. Now, Ben would rather pick a nice day and program his drone to do the mapping for him. He prides himself on helping others visualize geographic data in an engaging and understandable way. He lives with his bride and three kids in Simpsonville within walking distance from the Ghirardelli outlet.

**Tim Tong, PLS** Having gained the experience necessary for qualification for professional examination, and passing said exam, I have been licensed as a Professional Land Surveyor in the Commonwealth of Kentucky since May of 2012. I began my surveying career for a local surveyor in Owensboro, KY in the winter of 2001. I fell in love with surveying and never looked back. I have since worked at several different local and national surveying firms located in Evansville, IN and Austin, TX. I studied Land Surveying & Geomatics at Austin Community College in Austin, TX. I moved back to Kentucky to work at GRW's corporate headquarters in Lexington, KY where I now am the Survey Division Manager. My vast experience includes many types of surveying and clientele. I have worked on everything from small retracement surveys, to pipelines that have stretched hundreds of miles all across the US, to construction staking for building gridlines on high-rises. I have been a member of the Kentucky Association of Professional Surveyors since 2012. I have served as a Director on the Board (2017-2018) as well as the Chair of the Bluegrass/Capital Chapter of KAPS (2018-present).

**Frank L. Willis, PhD, PE, PG, PLS** Dr. Frank Willis is a professional land surveyor, professional civil and environmental engineer, and a professional geoscientist. He owned Willis Engineering from 1981, a civil/land survey firm. He sold Willis Engineering to a national firm in 2004. Since 2004, Willis has concentrated in forensic engineering and forensic surveying. His PhD is in engineering and applied science with a concentration in state-of-the-art natural scientific techniques associated with scientific evaluation of historic and present natural monuments. The subject is often associated with disputed water and land boundaries and navigability determinations related to state ownership of the beds of lakes and streams. Dr. Willis conducts seminars nationally and is an adjunct faculty member at Louisiana State University. BS in Civil Engineering, LSU, BS in Zoology, LSU, Master of Engineering, University of Wisconsin, PhD in Engineering and Applied Sciences, University of New Orleans with attendance at University Arizona and LSU.

**Christopher C. Wischer** is a member of Stoll Keenon Ogden PLLC where he is part of the Real Estate, Eminent Domain, and Government Relations practice groups. Chris joined SKO in August of 2017 with SKO's merger with Bamberger, Foreman, Oswald & Hahn, LLP. He graduated from Transylvania University with the B.A. in Finance and Computer Science in 1993, and from the University of Kentucky College of Law in 1996. He was admitted to the Kentucky Bar Association in 1996 and the Indiana Bar Association in 1997. He is also admitted to practice in the United States Circuit Court, Seventh Circuit, and the United States Districts Courts in Kentucky and Indiana. His practice areas include commercial real estate development, land use and zoning, right of way acquisition, and municipal law. He serves as the Town Attorney for Newburgh, Indiana and Elberfeld, Indiana and as the City Attorney for Corydon, Kentucky. He is currently a past President of the Indiana Chapter of the International Right of Way Association. He has given numerous presentations and speeches on a wide variety of real estate and governmental topics, including numerous presentations on the subject of easements and rights-of-way.