At the University of Kentucky College of Engineering, we’re setting our sights on unprecedented growth.

We are committed to expanding our 3,900-student enrollment to 6,000 by 2025. To accommodate such growth, we plan to hire 70 new faculty over the next five years.

And expansion is already underway. Grehan Hall will supply the college with 22,000 square feet once major renovations are completed later this year.

“As a land-grant institution, we are responsible to bring our comprehensive research mission to communities across the state. It’s our obligation to make sure our expertise and facilities are put to good use for the people of the Commonwealth.”

- Rudy Buchheit, Dean of the University of Kentucky College of Engineering
FROM THE SOCIETY

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The 84th KSPE Annual Convention is fast approaching! Check out what sessions and events we have scheduled for this year’s Convention being held April 17-19, 2019 at the Omni Louisville Hotel.

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KSPE Membership,

I truly hope everyone had a Merry Christmas and Happy New Year! The holiday season is certainly my favorite time of the year where we spend time with our families and reflect on the year behind and plan for the year ahead. Not to mention all the great food we get to enjoy! As I reflect on 2018, my immediate thought is how fast the year seemed to come and go. For KSPE, we are about half way through an administrative year that has been full of impactful changes and challenges to our society. I look forward to the progress that we can make in the year ahead. Below are a few updates since my last article.

Executive Director
As you all are aware, Russ Romine resigned as Executive Director of the Kentucky Society of Professional Engineers, American Council of Engineering Companies of Kentucky, and the Kentucky Engineering Foundation on November 15th, 2018. We thank Russ for his strong leadership over the past 2 years and wish him nothing but success in the future.

Since his resignation, a focus of mine and other state leaders over the past 2 months has been to lay the groundwork and begin the process of identifying our next Executive Director. We are excited by the quantity and quality of responses that we have received to date from the advertisement and we look forward to interviewing a few of the applicants in the near future.

Kentucky General Assembly – 2019 Session
The 2019 Kentucky General Assembly gaveled in for their 30-day short session on January 8th. Our legislative committee chair Chris Dickinson, lobbyists, and other state and national society leaders are keeping a watchful eye on legislation that could potentially affect the Professional Engineer.

As I mentioned in a previous KY Engineer Magazine article, NSPE Executive Director Mark Golden gave a presentation at the 2018 NSPE Conference entitled “Threats to Licensure: A Tale of Two Paradigms”. He summarized the ongoing threats to the PE license across the country including recent state and/or federal legislation that was pending or enacted upon to remove or drastically reduce licensure requirements and to consolidate, weaken, or eliminate licensing boards. Based on our understanding of pending legislation, the threat of weakening professional engineering licensing board is still active. KSPE and its partners are working closely with one another to track this and other legislation so be on the lookout for future updates.

Awards
KSPE is seeking nominations for the following awards:

- D.V. Terrell, PE Award – The D.V. Terrell, PE Award is given to an individual that has contributed significantly to the goals and objectives of KSPE and is considered to have made an outstanding contribution to the Society within the past one-year period.

- Distinguished Service Award – The Distinguished Service Award is given to an individual that has been active in performing his civic and public responsibilities, has a positive professional reputation, and has consistently worked for the professional, civic and technical interests of the engineering profession.

- Marcie Fisher Outstanding Contribution to Leadership PE Award – This award is given to an individual who has contributed significantly to the goals and objectives of Leadership PE and considered to have made an outstanding contribution to the program. The purpose of this award is to recognize those who dedicate their time and energy to make this program possible. This may be a member or non-member who dedicates their time and effort. This individual may also be a current or past participant of Leadership PE.

- Outstanding Contribution to MATHCOUNTS Award – This is an award given annually to an individual that has contributed significantly to the goals and objectives of MATHCOUNTS and is considered to have made an outstanding contribution to the program. The purpose of this award is to recognize those who dedicate their time and energy to make this program possible. The individual may be a member or non-member who dedicates their time and effort.

If you feel someone is deserving and fits the description of one of these prestigious awards, please consider nominating them. Nominations can be sent to Marcie Fisher by email at marcie@kyengcenter.org.
Young Engineer of the Year Award
Congratulations to Chris Rust, PE for being selected as the Kentucky Society of Professional Engineers Young Engineer of the Year Award for 2019. Chris was nominated from the Northern Kentucky Chapter and works for Strand Associates, Inc. We wish him the best of luck representing Kentucky for the NSPE Young Engineer of the Year Award.

KSPE Chapter Governing Documents
As mentioned in last quarter’s edition of the magazine, as a result of our new integrated partnership and agreement with NSPE, the KSPE Constitution was repealed in its entirety and provisions contained therein were incorporated into new governing documents that included KSPE Bylaws and KSPE Operating Procedures.

While the new documents are in place for the State Society, KSPE has requested that each Chapter modify their governing documents to align with those of KSPE. To assist with this transition, a template for Chapter Bylaws and Operating Procedures was provided to Chapter leadership for each Chapter to modify to fit their specific need. KSPE requests that after the new governing documents are established, please send a copy to Marcie for KSPE records. I want to recognize and thank Darin Hensley for taking on the task of creating the templates and the rest of the NSPE Membership Model Task Force for reviewing/editing. Please let me or the KEC staff know if you have any questions.

MATHCOUNTS
The 2019 MATHCOUNTS competitions are right around the corner. Chapter competitions will be held at various locations throughout the state on Saturday, February 16th. The state competition will be held on Saturday, March 23rd on the campus of the University of Louisville. As a reminder, through partnerships with state universities, over 60 college scholarships are awarded to Kentucky middle school students participating in MATHCOUNTS each year! If you have never attended a Chapter or State competition, I highly encourage you to check one out in 2019.

2019 KSPE Annual Convention
The annual convention planning committee have been hard at work planning this year’s event. Details for the 2019 KSPE Annual Convention are provided in this edition of the KY ENGINEER magazine. I hope to see you at the Omni Louisville Hotel in April.

Closing
In closing, I want to say that serving as President of KSPE continues to be an honor and a privilege that I am grateful for. I along with many past presidents have said that the more you put into KSPE, the more you will get in return. This could not be more true. I am reminded each day of the value this organization brings to the individual and to the Professional Engineer. Thanks again to all the volunteer leaders and KEC staff for making being a member of KSPE a good investment.

As always, I ask that you consider inviting someone to your next Chapter meeting. A new year is a great time to encourage that young engineer in your office to get engaged with KSPE. Also, remember that we are here to serve you. If you have any questions or would like more information, please don’t hesitate to contact me or the KSPE staff and we will be happy to help.

Sincerely,

Matthew H. Rogers

REMINDER
As of July 1st, KSPE is no longer billing three-tiered members. If you are a three-tiered member (NSPE/KSPE/Chapter), you need to renew through NSPE at http://www.nspe.org.

KSPE still handles renewals for two-tiered members (KSPE/Chapter). Those renewals can be done through http://www.kyengcenter.org or by calling the KEC Office at 502-695-5680.

If you are not a current member of KSPE, to join you need to do so using the NSPE website. You can join by visiting the following link: https://www.nspe.org/membership/join-now

Questions?
Please call the KEC office at 502-695-5680.
Moving Forward
The Kentucky Board of Licensure for Professional Engineers and Land Surveyors strives to continuously improve its methods and procedures in order to provide the best service to its licensees and the public. Much of our efforts have been aimed at streamlining the application process to make it easier and faster to apply for a license while adhering to nationally recognized standards for education, experience and examinations. In doing so, we ensure that licensees possess the necessary training and experience to deliver safe and reliable professional services to the public while also enhancing license portability for those licensees who choose to be licensed in and work in multiple states.

Computer Based Testing
One of the biggest advances at the board in recent years has been the conversion of licensing exams from paper-and-pencil format to a computer based format. This is an ongoing effort on a national scale. The board has for many years used nationally standardized tests administered by NCEES, the National Council of Examiners for Engineers and Surveyors. NCEES has partnered with Pearson Vue, one of the most respected computer based testing firms in the world to convert all of its exams to a computer based format.

It has been, and continues to be a monumental effort. It involves many thousands of volunteer hours to expand the bank of exam questions as well as the efforts of dozens of experts in the science of testing to ensure that every exam is fair, unbiased and accurately measures the knowledge and ability of every examinee. From these efforts come many benefits.

- **Easier and Faster Access to Exams** – With the old paper-and-pencil format, exams were given only once, or at best twice a year and only at a limited number of locations. With computer based testing, an applicant can make an appointment to sit for an exam within a few weeks, and can take that exam at any Pearson Vue Testing center, anywhere in the country.

- **Enhanced Security** – Pearson Vue Testing Centers and the computer based tests they administer are significantly more secure than paper and pencil exams.

- **Faster Results** – With computer based testing, long waiting time to learn of one's exam score is minimized. Results are reported in a matter of just a few days. Additionally, examinees who fail to make a passing score are provided detailed diagnostics about how they did on the various knowledge areas that were tested. This helps examinees know where to focus their efforts as they prepare for re-examination.

- **Faster Retakes** – Given the ease with which one can schedule an exam and the fast reporting of results, licensees can easily schedule to re-take an exam.

**Early Taking**
The Kentucky Board has “de-coupled” the exam requirement from the experience requirement for licensure; in other words, candidates for engineering or surveying licensure no longer have to wait until after they complete their experience requirement in order to sit for the PE or PS exam. Anyone who has met the educational requirements for licensure and passed the fundamentals exam can take the PE or PS exam.

While licensure is still dependent on satisfaction of the experience requirement, de-coupling, combined with computer based testing enables applicants to get the exams out of the way and thus ensure that they can become licensed at the earliest possible date after they have met the experience requirements.

**Current Status of Computer Based Testing**
The conversion to computer based testing is going well and is on schedule.

As of today the exam process for land surveyors is completely computer based.

For engineers, we are still in a period of transition. The fundamentals exam, which is the same for all disciplines of engineering is computer based.

The principals and practice exams, which are discipline specific are being transitioned to the computer based format a few at a time. As of now, the PE exams for Chemical and Nuclear engineers are computer based. Other disciplines will be converted according to the timetable below.

(see next page)
2019 – Environmental, Petroleum
2020 – Mechanical, Fire Protections, Industrial
2021 – Electrical, Agricultural, Mining
2022 – Software, Naval Architecture
2023 – Civil
2024 – Structural

Other News - Late Firm Renewals
Any firm that missed the December 31, 2018 deadline to renew its Firm Permit (also known as Business Entity Permit) may still renew its permit online for up to a year from the date of expiration. The system will calculate a 10% per month late renewal penalty.

A word of caution however; the late renewal provision notwithstanding, the offering or providing of professional services through a firm having an expired permit is prohibited and can result in disciplinary action.

You can check the license/permit status of any person/firm using our online searchable roster…  https://elsweb.kyboels.ky.gov/kweb/Searchable-Roster.

If after checking the roster you are still uncertain as to the status of an individual or firm, contact our office for assistance.

Calendar of Events 2019

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

ENFORCEMENT ACTIONS SUMMARY
For The Period
October 13, 2018– January 10, 2019
Kyle Elliott, Director of Enforcement

C2G DEVELOPMENT, LLC
On April 30, 2018, the Board received information from a licensee, that C2G Development, LLC, of London, KY, was advertising engineering services and did not have the appropriate business permit, nor did they have a professional engineer on staff, in violation of KRS 322.010. A Board investigation confirmed that C2G was advertising engineering services on their website and in printed material, without the proper permit or individual engineering license. To resolve the matter, C2G Development, LLC, through their manager, James William Cole (aka J.W. Cole), entered into an Agreed Injunction, which enjoins him from further advertising engineering services, and required him remove all references to engineering and engineering services from the C2G website and to destroy all printed material advertising engineering services. No penalty was assessed for the current violation, however, the Agreed Injunction calls for a $1,000 fine and seven (7) days in jail for any future violations. The Agreed Injunction was entered into Franklin Circuit Court on November 13, 2018.

DANIEL STACY JOHNSON, PLS
Daniel Stacy Johnson, PLS, of London was disciplined for committing violations of the surveying Standards of Practice, as set out in 201 KAR 18:150, and for continuing to practice on an expired business entity permit, in violation of KRS 322.060, Section 2. In 2016, the Board received a complaint from one of Johnson’s former clients. An investigation by the Board found that Mr. Johnson had failed to meet many of the requirements of the Standards of Practice, as set out in 201 KAR 18:150, for the complainant’s survey. An expanded review of Mr. Johnson’s recent boundary surveying work also revealed multiple failures to meet the Standards of Practice. In addition, during the investigation it was found that Mr. Johnson had continued to provide land surveying services in Kentucky through the business entity D & S Surveying, LLC, after the business entity permit had expired, in violation of KRS 322.060. This case was resolved through a Consent Decree wherein Mr. Johnson acknowledged the violations and agreed to: (1) pay a fine of $2,000, (2) reinstate his business entity permit for D & S Surveying, LLC, (3) attend a live presentation of the Standards of Practice, Code of Conduct, and KRS 322 seminar within six-months, and (4) a two-year probation of his professional land surveying license during which time he will submit to a quarterly review of his land surveying work. The Board of Licensure accepted the Consent Decree on January 11, 2019.
HEATH A. DUMACK, PE
In December of 2017, the Board of Licensure learned that Heath A. Dumack, PE, of Penns Park, Pennsylvania, had been disciplined by the Delaware Association of Professional Engineers for his failure to meet the required continuing professional competency obligations. Based on a review of that case, it was determined that pursuant to the provisions of KRS 322.180, Section 11, a reciprocal disciplinary action by the Kentucky Board of Licensure was warranted. In addition, as part of this investigation, Mr. Dumack’s continuing professional development (CPD) obligations in Kentucky were audited, and based upon the documentation he provided for that audit, he had failed to complete the required thirty hours of qualifying CPD activities for the 2015/2016 reporting period. However, he subsequently made up the deficiency prior to renewing his license in 2017. The case was settled by a Consent Decree wherein Mr. Dumack acknowledged the violations and agreed to the following sanctions: (1) he shall receive a written Reprimand, (2) he shall submit proof of obtaining 30 professional development hours of qualifying CPD activities for the 2017/2018 reporting period within ten days of entry of the Decree, (3) and he shall submit proof of 30 professional development hours of qualifying CPD activities for the 2019/2020 reporting period by not later than January 10, 2021. The Board accepted the Consent Decree on January 11, 2019.

DUMACK ENGINEERING, P.C.
During the investigation of Heath A. Dumack, PE, a principal in Dumack Engineering, P.C., a Pennsylvania corporation, it was determined that Dumack Engineering, P.C. had provided professional engineering services on three (3) projects located in Kentucky, between January 1, 2008 to March 7, 2016, without the required business entity permit, in violation of KRS 322.060, Section 1. The case was settled by a Consent Decree wherein Mr. Dumack acknowledged the violations and agreed to the following sanctions: (1) he shall receive a written Reprimand, (2) he must file for and obtain an engineering business entity permit not later than ten days following entry of the Decree, and (3) Dumack Engineering shall be on probation for a period of two years, with quarterly reporting of Kentucky engineering projects. The Board accepted the Consent Decree on January 11, 2019.

MATTHEW A. DETTMAN, PE
On September 27, 2018, Matthew A. Dettman, of Bowling Green, entered into a “Plea Agreement” with the United States Attorney for the Western District of Kentucky, where he pled guilty to one felony count of “Wire Fraud” in violation of 18 USC Section 1343. Specifically, Mr. Dettman, devised a scheme to defraud Western Kentucky University, where he was employed as an engineering professor, by diverting concrete and soil testing payments for his own personal use, resulting in a loss to WKU of $236,000. In the plea agreement, Dettman entered a plea of guilty to the charge and agreed to pay the victim, WKU, $236,000 in restitution. In a Consent Decree with the Board of Licensure, Mr. Dettman acknowledged that his actions in this case constituted violations of KRS 322.180, Section 7 and 12, and the Code of Professional Practice and Conduct, 201 KAR 18:142, Section 4 and Section 9; and Mr. Dettman voluntarily surrendered his Kentucky Professional Engineer’s license. The Board accepted the Consent Decree on January 11, 2019.

JAMES WILLIAM RUSH, III, PE
James William Rush, III, PE, of Prospect, was disciplined for failing to comply with the Continuing Professional Development (CPD) requirements for professional engineers, in violation of 201 KAR 18:196, and for falsely representing on his 2018 online renewal that he had complied with the CPD requirements, in violation of KRS 322.180, Section 7 and 12. The case was settled by a Consent Decree wherein Mr. Rush acknowledged the violations and agreed to the following sanctions: (1) he shall receive a written Reprimand, (2) he shall pay a $1,000 fine, (3) he shall provide proof of his participation in thirty professional development hours of qualifying CPD activities for the 2016/2017 reporting period, by no later than February 15, 2019, and (4) he shall provide proof of his participation in thirty professional development hours of qualifying CPD activities for the 2018/2019 reporting period by no later than January 10, 2020. The Board accepted the Consent Decree on January 11, 2019.

Enforcement Statistics
Calendar Year 2018

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning of year complaint files active</td>
<td>50</td>
</tr>
<tr>
<td>Complaint files opened</td>
<td>56</td>
</tr>
<tr>
<td>(33 engineering 23 surveying)</td>
<td></td>
</tr>
<tr>
<td>Investigations completed / complaint files closed</td>
<td>50</td>
</tr>
<tr>
<td>Year-end complaint files active</td>
<td>56</td>
</tr>
</tbody>
</table>
WHY I WITHDREW MY NOMINATION TO BE DIRECTOR OF THE OFFICE OF SURFACE MINING, RECLAMATION AND ENFORCEMENT IN THE DEPARTMENT OF INTERIOR

Over one and a half years ago I was approached about becoming Director of the Office of Surface Mining, Reclamation and Enforcement (OSM). My official nomination was made in October 2017 and I was honored to have an opportunity to serve. There were critics of course who said that someone who had worked with industry was not qualified to run the office charged with enforcement.

I am sure you have heard I have withdrawn my name. The process had drug on with no end in sight. The requirements to accept the position kept changing. And each step to find out the latest condition would take weeks. The cost and uncertainty just became overwhelming and I decided it was time to get on with life. I appreciated all the congrats and best wishes from everyone there. So, it is back to work and trying to catch up on some of the lost opportunities from the last year. I have to say I am disappointed. I thought I could make a difference using my experience in mining reclamation, practical environmental stewardship and my working relationship with state governments. I had hoped to be able to meet all my old friends and colleagues in OSM when I officially became Director. I have known and worked with many in OSM over the past 40+ years and have the utmost respect for everyone in OSM, contrary to what has been said by some.

I had started this Memo to introduce myself to the OSM staff who did not already know me. After receiving a BS in Agricultural Engineering, I worked in East Kentucky where some of the first large scale mountaintop mines were started in the mid-70’s. In 1977 I worked for a consulting firm that received the contract to write the first training program for OSM inspectors, “Surface Mining and the Natural Environment”. Moving to Tennessee to work, I got to know a lot of the early OSM personnel in Knoxville. I moved back to Lexington in the 1980’s and attended UK to earn an MS in Mining Engineering with an Environmental Systems Certificate and began my consulting practice.

When the Appalachian Regional Reforestation Initiative began, I was one of the first signers preparing the first permit approved in Kentucky using the Forestry Reclamation Approach. I served on a joint state/industry/citizen Bonding Protocol Work Group at the request of both Kentucky and OSM. I have been honored to call many OSM colleagues friends over the years and I am confident that those who know me can attest to my character and professionalism in the approach that I would have taken to the job.

Complaints closed with no action warranted
Admonishments
Agreed injunctions / orders (unlicensed practice)
Reprimands, fines, probation, etc.
Suspensions
Revocations / surrenders
Licenses Retired or Inactive
Other
Total complaint files closed 56

1. Includes suspensions of licensees who failed to comply with terms of a prior Consent Decree.
2. Includes revocations of licensees who failed to comply with terms of a prior Consent Decree.
3. Includes licensees who had failed to comply with CPD requirements and elected to retire their license.
I was surprised by the attention my nomination and withdrawal drew from media and want to address some of the inaccuracies, innuendoes and misconceptions that were circulated. I believe Ian MacDougall’s December 12, 2017 Propublica article was the most egregious. It is common knowledge I was part of a team of the 7 consulting firms that worked on the Stream Protection Rule (SPR) in 2010. In fact, I was personally recruited by OSM to be part of the team. There were approximately 100 engineers, scientists, attorneys, and economists, plus several professors who worked on the DRAFT EIS and RIA. There were also numerous OSM employees imbedded in the work groups. The DRAFT EIS utilized text from previous EIS documents, as directed by OSM which was always appropriately cited.

Because the preliminary results of the EIS/RIA showed the SPR would result in significant mining job losses, OSM managers at the time asked for those results to be altered. I find it interesting that article stated that I personally tried to sabotage the SPR. I take great offense at that characterization. I make no apologies for my role, but I was only one of a larger team that took a stand. My colleagues and I were labeled as “Whistle Blowers” and threatened with severe repercussions because we refused to alter the results of science and engineering-based studies. As a group, we took a stand to protect the honor of our respective professions. The full “Draft Documents” were never made public, just criticized for predicting job losses.

I believe that the DOI Inspector General’s report in 2013 served as a vindication. I have to say those who criticized the quality of the work were not privy to the full story. It was a Draft document subject to further work and editing, i.e., it was not finished! Many former and current OSM employees who were part of the process defended the original EIS and RIA. Another thing that was not publicized is that the contractors were always promised more time and budget to finish the EIS and RIA but were not given that promised opportunity when it was discovered the contractor group as a whole would not alter the results.

The new EIS and RIA were completed in 2015 for the 2016 SPR version. In the Propublica article, John Morgan (who was on both teams, 2010 and 15) was quoted saying that no one had a problem with his work in the early drafts. Mr. Morgan was part of everything that was produced and helped model the job loss numbers. It was Mr. Morgan’s firm as part of the later SPR work that inexplicably reversed the predictions of the earlier study. Also, Mr. Morgan stated that he did not see how I could lead an agency I had criticized. My criticisms were of the few people whose actions tried to force the report results to be altered. I know there were many in the agency who did not agree with the actions at that time and who expressed support of my nomination. A more accurate Propublica headline would be, “Nominee Refused to Alter Results of Science and Engineering Study for Politicians.”

I proudly served as 2015 President of the Society FOR Mining, Metallurgy and Exploration which is not an “industry group”, but a professional society with individual members that includes numerous OSM personnel, as well as scientists, engineers, attorneys, economists, and mining professionals from across many sectors. I believe the mission of OSM is NOT to stop mining, but to work collaboratively with state government partners to insure mining is done responsibly for the common good of the public. I was particularly disappointed by a statement that Former Director Joe Pizarchik made to E&E News on September 11, ”Mr. Gardner’s decision gives the Trump administration an opportunity to select a director who will work to protect the people of coal country, and not the industry or regulators.”

I would simply reply that as a licensed Professional Engineer I took an oath to protect the public health, safety and welfare and have dedicated my career to improving the performance of mining for the benefit of society! I live by that code every day with honor and integrity and that is how I intended to manage OSM. Now I am moving on to complete my career to fulfill that personal mission. I look forward to continuing to work with my colleagues in OSM on many more projects in the future.

Respectfully,
Steve Gardner
### The convention is being held at the Omni Louisville Hotel.

Make your room reservation before March 23, 2019. Our block of rooms will be released to the general public on March 24th. Hotel reservations are subject to taxes.

#### HOTEL INFORMATION

- **Omni Louisville Hotel**
  - 400 S 2nd Street
  - Louisville, KY 40202
  - Phone: (502) 313-6664

- Web: See the event page at kyengcenter.org for link.
- Rate: $159.00/night
- Room Block will be released on March 24, 2019.

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### Thank You!

Thanks to all those who have helped us pull together our agenda this year. They have been an outstanding group to work with! We also want to thank all those who have agreed to speak at the 84th Annual KSPE Convention! We really appreciate your willingness to participate in this annual event and make it one worth attending. We have many great sessions again this year, and the sessions are what keep people coming year in and year out.

Also, we wanted to thank all those who responded to our Call for Abstracts. We really appreciate your willingness to assist us in putting together an amazing program. We understand that we were not able to utilize everyone's presentations this year but we do hope that you will consider submitting again in the future. If any of you are interested in presenting at our one day seminars around the state in the Fall, please contact the staff at the Kentucky Engineering Center, we would love to have you.

This event is not possible without the help of those willing to speak and those willing to assist in the preparation of the convention, so again we thank you so much for all that you do!

- KEC Staff

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**Wednesday, April 17**

- 1:00 pm  Four Tracks of Seminars
- 1:30 pm  Tour: Droning On...Using Drones For Projects
- 6:00 pm  Wednesday Night Event

**Thursday, April 18**

- 8:00 am  Five Tracks of Seminars + Tour
- 11:30 am Lunch with Order of Engineer Ceremony, Awards & Recognition, KSPE Business Meeting, Installation of Officers
- 1:30 pm  Five Tracks of Seminars + Tour of Churchill Downs Upgrades
- 5:30 pm  President’s Reception

**Friday, April 19**

- 8:00 am  STEM Highlight
- 10:00 am Three Tracks of Seminars + Tour
- 11:45 am Lunch with Leadership PE Graduation Speaker: Mayor Greg Fischer, Louisville Mayor *(invited)*
Attendee Information
Name: 
Street Address: 
City: 
PO Box: 
State: 
Zip Code: 
Phone: 
Badge Name: 
Email: 

Event Options
- Member of KSPE/ACEC-KY/SAME - Includes All Events $395
- Non-Member - Includes All Events $525
- Thursday One Day Registration - Includes Wednesday Night and Thursday Lunch $250
- Friday One Day Registration - Includes Friday Lunch Ticket $200
- Student Registration (Classes only) $20

Event and Guest Tickets
- Order of the Engineer $15
- BBQ & Bluegrass Picnic $50
- Thursday Lunch $35
- Thursday Night Reception $35
- Friday Lunch $35

Session Options
**Please select the seminars, tours and events that you plan to attend from this list**

Wednesday, April 17th
- Tour
  - Droning On...Using Drones for Projects 1:00 - 5:00 pm
  - Standards of Practice, Ethics & Code of Conduct 1:00 - 1:50 pm
  - Anatomy of Catastrophe: A Forensic Firm’s Response to Severe Weather Events 1:50 - 2:40 pm
  - Blue Grass Army Depot: Inside the Wire
  - Engineers in the Community 3:15 - 4:00 pm
  - What Does “Means & Methods” Really Mean for Design Professionals
  - Open Roads Designer Implementation
  - Mobile Field Data Collection Using GIS for Small Utilities 4:00 - 5:00 pm
  - Putting Your Best Foot Forward - Not In Your Mouth
  - Rebuilding Puerto Rico in the Aftermath of Hurricane Maria: My Experience
  - Quantity Takeoffs & Rough Estimation using Bluebeam

Thursday, April 18th
- Tour
  - Waterway Protection Tunnel 8:00 - 8:50 am
  - A Look Into The Distant Future
  - Visualizing Your World - How UAS Can Enhance Your Projects from the Ground Up
  - Indianapolis Belmont North Lift Station - Making Gray Infrastructure Green
  - Muddy Creek WTP Grit Upgrades: No Space-No Problem
  - Safety in Public Spaces - Security Bollards Play a Vital Roll 9:20 - 10:10 am
  - 614,000 Square Yards of Success: Reconstructing Detroit Metro’s Longest Runway in 100 Days
  - Bridging Kentucky
  - Physical Modeling and Data Management of Utility Assets
  - Commonwealth of Kentucky/Louisville Metro Catastrophic Urban Flood Plan
  - Louisville Water Company Topic

Thursday, April 18th (continued)
- Lunches & Tours
  - LiDAR, UAV and Terrestrial Scanning Data - Making It EZ to Use
  - Transforming Dixie Highway
  - Practical Implementations of LiDAR
  - Kentucky Lock Expansion Project
  - New Tools and Datasets Facilitate Large-Scale Structure-based Flood Risk Assessments

Afternoon Tour
- Churchill Downs 1:30 - 2:20 pm
- KYTC Professional Services
- Buggie Scanners & The Louisville Metro Sidewalk Inventory
- MSD Water Quality and Stream Restoration Update
- Implementing Prioritized Projects from a Watershed Based Plan on Picadome Golf Course 2:50 - 3:40 pm
- US68 Bridge Embankment Settlement
- Active Shooter! Now What!
- Crossing the Line, the Private Property Line (Camp Taylor Sanitary Sewer Replacement Projects)
- Standby Power Requirements and Considerations
- TBD 4:10 - 5:00 pm
- Treatment of End Bent or Abutment Backfills Using Geotextile Reinforcement and Elastic Inclusion
- Western Bardstown Connectivity Study
- Retirement Planning: Everything You Need to Know
- Louisville MSD Rowan Pump Station: Design Challenges of a Deep Submersible Pump Station
- Town Branch Project

Friday, April 19th
- Lunches & Sessions
  - I-69 Ohio River Crossing 7:30 - 10:00 am
  - STEM Highlight
  - 2019 ASCE Infrastructure Report Card 10:45 - 11:30 am
- Common Sense Negotiating
- 10:00 - 11:30 am Sessions
- Putting Safety First: How New Safety Analysis Methods Are Changing the Way We Do Business
## 2019 KSPE Annual Convention

**WEDNESDAY, April 17, 2019**

<table>
<thead>
<tr>
<th>Morning</th>
<th>Registration</th>
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</thead>
<tbody>
<tr>
<td>Technical Sessions</td>
<td>Room 1</td>
</tr>
<tr>
<td>1:00 - 1:50 pm</td>
<td>Anatomy of a Catastrophe: A Forensic Firm's Response to Severe Weather Events</td>
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<tr>
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<td>John Miller, PE, Forensic Engineer, Principal Consultant &amp; CAT Manager, DONAN</td>
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<tr>
<td>1:50 - 2:40 pm</td>
<td>Blue Grass Army Depot: Inside the Wire</td>
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<td>D. Scott Wolf, PE, PLS, FNSPE, Director of Public Works &amp; James W. Sivley, PE, Chief of Facilities Engineering, Blue Grass Army Depot</td>
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<tr>
<td>3:15 - 4:00 pm</td>
<td>What Does “Means and Methods” Really Mean for Design Professionals</td>
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<td>AJ Manion and Jean Terry, Manion Stigger</td>
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<tr>
<td>4:00 - 5:00 pm</td>
<td>Putting Your Best Foot Forward - Not In Your Mouth</td>
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<td>Kerri Richardson and Chad Carlton, C2 Strategic Communications</td>
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</tbody>
</table>

Evening Icebreaker Event from 6:00 pm - 9:00 pm (RSVP Required)
## 2019 KSPE Annual Convention

**THURSDAY, April 18, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room 1</th>
<th>Room 2</th>
<th>Room 3</th>
<th>Room 4</th>
<th>Room 5</th>
<th>Tours</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am - 4:30 pm</td>
<td><strong>Registration</strong></td>
<td><strong>Technical Sessions Room 1</strong> A Look Into the Distant Future Alex Yazdani, PE, Sigma Technologies</td>
<td>Visualizing the World - How UAS Can Enhance Your Projects from the Ground Up John A. Zuleger, PE, SPRAT III, Michael Baker International</td>
<td>Indianapolis Belmont North Lift Station - Making Gray Infrastructure Green Hans Peterson, PE, Clark Dietz</td>
<td>Muddy Creek WWTP Grit Upgrades: No Space - No Problem Dinesh Kumar Palaniswamy, PE, Jacobs</td>
<td>Safety in Public Spaces - Security Bollards Play a Vital Roll Chris Theisen, and Brian Smith, ADAPT Technology</td>
<td><strong>Tours</strong> TBD Tour</td>
</tr>
<tr>
<td>8:00 - 8:50 am</td>
<td><strong>Technical Sessions Room 2</strong></td>
<td><strong>Technical Sessions Room 2</strong> 614,000 Square Yards of Success: Reconstructing Detroit Metro's Longest Runway in 100 Days Sri Kumar, PE, Connico</td>
<td>Visualizing the World - How UAS Can Enhance Your Projects from the Ground Up John A. Zuleger, PE, Sigma Technologies</td>
<td>Indianapolis Belmont North Lift Station - Making Gray Infrastructure Green Hans Peterson, PE, Clark Dietz</td>
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<td>Safety in Public Spaces - Security Bollards Play a Vital Roll Chris Theisen, and Brian Smith, ADAPT Technology</td>
<td><strong>Tours</strong> TBD Tour</td>
</tr>
<tr>
<td>11:30a - 1:30 pm</td>
<td><strong>Technical Sessions Room 5</strong></td>
<td><strong>Technical Sessions Room 5</strong> 614,000 Square Yards of Success: Reconstructing Detroit Metro's Longest Runway in 100 Days Sri Kumar, PE, Connico</td>
<td>Physical Modeling and Data Management of Utility Assets James R. Garrett, PE, and Zachary Amsus, Vaughn &amp; Melton</td>
<td>Commonwealth of Kentucky/Louisville Metro Catastrophic Urban Flood Plan John J P Carson, Louisville MSD</td>
<td>Louisville Water Company Presentation LWC Representative</td>
<td>New Tools and Datasets Facilities Large-Scale Structure-based Flood Risk Assessments Carey Johnson, Assistant Director, KDOWN</td>
<td><strong>Tours</strong> TBD Tour</td>
</tr>
<tr>
<td>4:10 - 5:00 pm</td>
<td><strong>Technical Sessions Room 5</strong></td>
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**Evening**

President's Reception from 5:30 - 7:00 pm

All Attendees Welcome
2019 KSPE Annual Convention

FRIDAY, April 19, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 - 10:00 am</td>
<td>7:30 am Breakfast Buffet Opens</td>
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<td></td>
<td>8:00 - 10:00 am STEM Highlight</td>
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<tr>
<td></td>
<td>MATHCOUNTS Student Recognition &amp; Awards, PLTW, Future City, and More!</td>
</tr>
<tr>
<td>10:00 - 10:45 am</td>
<td>I-69 Ohio River Crossing</td>
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<tr>
<td>10:45 - 11:30 am</td>
<td>Putting Safety First: How New Safety Analysis Methods are Changing the Way We Do Business</td>
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<tbody>
<tr>
<td>11:45 am-1:30 pm</td>
<td>LPE Graduation</td>
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We are looking forward to the STEM Highlight we have planned for this year's Annual Convention. The STEM Highlight will be held during breakfast on Friday morning, giving the students and their supporters a chance to give you more information on the programs they so dearly love and enjoy. Some of the STEM programs being represented that morning are:

**Kentucky MATHCOUNTS** is a middle school math (6th, 7th, & 8th grades) education program of the Kentucky Engineering Foundation, Inc. (KEF), produced in conjunction with KSPE. Mathcounts’ mission is to increase interest and involvement in mathematics among all intermediate school students in order to assist in developing a technically literate population essential to US global competitiveness and the quality of life.

**Project Lead the Way** is the nation’s leading provider of science, technology, engineering, and math (STEM) programs. Through world-class K-12 curriculum, high-quality teacher professional development, and outstanding partnerships, PLTW is helping students develop the skills needed to succeed in the global economy.

**Future City** is a flexible, cross-curricular educational program gives students an opportunity to do the things that engineers do—identify problems; brainstorm ideas; design solutions; test, retest and build; and share their results. This process is called the engineering design process. With this at its center, Future City is an engaging way to build students’ 21st century skills.

We are hoping to have more groups there so be sure to join us on Friday morning to support these students!

KSPE’s Order of the Engineer Ceremony will be conducted during Thursday, April 18th's breakfast program, held at the Omni Hotel Louisville.

Any engineer is eligible for induction if he or she has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer. The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer.

For additional information, visit www.order-of-the-engineer.org.
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Chris Rust, P.E., of Strand Associates, Inc., has been awarded the Young Engineer of the Year Award from the Kentucky Society of Professional Engineers. Chris received both a Bachelor’s of Science and Master’s Degree in Civil Engineering from the University of Louisville. Chris is a licensed professional engineer in Kentucky and Ohio.

Chris is actively engaged in the Northern Kentucky Society of Professional Engineers, serving in positions as Board of Director, Vice President, President, and State Director. He is currently serving on the Board of Directors as head of the membership committee, and volunteers for the local MATHCOUNTS competition. Chris is also a member of both the Kentucky Stormwater Association and Ohio Stormwater Association.

During his career at Strand Associates, Chris has consistently demonstrated exceptional technical and professional capabilities. He began as a project engineer in 2006 before quickly transitioning to a project manager. Chris now serves as a Discipline Coordinator, including responsibilities for oversight on all projects and nearly 20 staff members. Chris also serves as a mentor for young engineers at Strand.

Chris’s experience has been focused on the stormwater management industry, including projects that have emphasized sustainability and green infrastructure. He has lead the design of a variety of numerous high-profile projects that have improved water quality, reduced flooding, and provided community benefits. Several of these projects have been recognized with state and national awards for innovative stormwater management.

Chris resides in Cold Spring, Kentucky with his wife Heather and their three children – Caroline, Harrison, and Henry.

Congratulations, Chris!

KY ENG: What was your favorite pastime when you were younger?

Chris: My favorite pastime as a child was playing and watching sports, primarily baseball, soccer, and basketball. My brother and I, along with friends in the neighborhood, spent countless days and nights playing all types of games and sports. I used to pretend I was Michael Jordan when I was shooting hoops in the driveway, and suffice it to say my basketball career didn’t pan out! I also enjoyed watching and attending Cincinnati Reds baseball games growing up. One of my favorite memories as a child was the last time the Reds won the World Series back in 1990!

KY ENG: Were you involved in sports or other extra-curricular activities when in high school?

Chris: I attended Newport Central Catholic High School, where I was involved in a variety of sports and extra-curricular activities. I played soccer all four years of high school, and have maintained a love for the sport that I have passed on to my children. I also played tennis in high school, and have enjoyed playing beyond my high school years. The experience of both a team sport and an individual sport helped to provide valuable life lessons. In addition to sports, I also volunteered for the Special Olympics and the blood
drive at school.

KY ENG: What was your favorite subject in high school?

Chris: As an engineer, I realize the typical answer for favorite subject is math and science! Obviously, those classes helped me grow from a technical standpoint. However, I also had a strong interest in geography and history, and particularly enjoyed those classes. Working on map drills in high school was always fun for me. I still enjoy reviewing maps and learning the history behind so many places in the world that I hope to visit in the future!

KY ENG: Why did you choose engineering as your college major?

Chris: I always had an inherent interest and ability in math, even at a young age. I remember getting excited for math “around the world” drills back in first and second grade! My older brother had the same abilities in math as well, and I think both of us always knew that the engineering field was our calling. My dad was in the construction industry throughout my childhood and was the hardest working person I’ve ever known. He would occasionally bring me to a job site to watch the construction trucks, which I loved as a young child. Despite his passion for the construction industry, my dad always encouraged me to apply my math abilities and consistently recommended the engineering field. I’m thankful that he steered me in the right direction! Although my dad and older brother both attended the University of Kentucky, I had the honor of receiving a full scholarship to attend the Speed School of Engineering at the University of Louisville. Don’t worry, they didn’t disown me for making that decision! I’m proud to have attended the University of Louisville, which shaped the engineer I am today.

KY ENG: Were you involved in additional activities in college beyond your studies?

Chris: I made an effort to get involved in activities beyond school work while in college. I played several intramural sports, including soccer, flag football, basketball and dodgeball. I became heavily involved in the student chapter of ASCE, and served as the treasurer during my senior year of college. Through that organization, I was able to build stronger relationships with my classmates and several professors in the civil engineering department. My involvement in the organization and networking with professional engineers in the real world even lead to an interview with Strand Associates, where I have been blessed to work for the last 13 years following graduation.

KY ENG: What are your interests beyond being an engineer?

Chris: My main interest beyond being an engineer is spending time with my wife and three children. My wife, Heather, and I were able to enjoy a nice vacation a couple of years ago to celebrate our 10-year anniversary. I can attribute much of my success to the support my wife always provides in my professional career. We are blessed to have three beautiful children – Caroline is 8 and in third grade, Harrison is 7 and in second grade, and Henry is 4 and in pre-school. People always say to enjoy your time with your kids because it goes by so fast, and that’s true! I’ve taken that to heart and honestly enjoy spending as much time with our children as possible. I help coach most of their sports teams, and make an effort to attend every game when possible. It’s not always easy with all three of them playing sports at the same time! We all enjoy attending the ballpark to watch the Cincinnati Reds play as well.

KY ENG: What one thing about you is something that those you interact with in a professional setting probably do not know?

Chris: It’s probably not a secret to some, but I’m a big music fan and my favorite band has always been Pearl Jam. It’s tough to attend many concerts these days now that we have children, but I still make an effort
to travel and attend Pearl Jam concerts when possible. My brother and I have probably been to around 15 of their concerts, including seeing them three different times at Wrigley Field in Chicago. You could call it a guilty pleasure, but I don’t feel guilty about it and still enjoy the music!

KY ENG: What has been the highlight of your career to date?

Chris: It’s hard to pick a single event that has been the highlight of my career to date. Being selected as the Young Engineer of the Year is certainly one of those! In general, my collective experiences while working at Strand Associates have been a highlight. I have advanced in my career from a project engineer, to a project manager, and recently to a discipline coordinator with more responsibilities of overseeing staff and projects. Our local office has grown from a staff of two (including myself) to nearly 20 engineers over the past 13 years, which is something that I am proud of. Being part of an office that has been built from the ground up has been very rewarding. I have been blessed to work with very talented and wonderful people at Strand, many of whom I consider to be good friends. I would be remiss if I didn’t acknowledge my long-time supervisor, John Lyons, who has been an instrumental influence on my career. John’s leadership, guidance, and mentorship have been the foundation for my successful career as an engineer.

KY ENG: Do you have a project that you’ve worked on that you are most proud of?

Chris: My expertise has been in stormwater planning and design, including a focus on green infrastructure. I’ve been fortunate to have been involved in numerous projects that have made an improvement on water quality and the environment. One of the most high-profile projects I helped to design is the Terraced Reforestation project along Interstate 71/75 in Northern Kentucky. The project included twelve terraced berms or bioswales with over 300 trees and a variety of plants that capture, treat, and infiltrate stormwater runoff. Several hundred thousand people drive past the site on a daily basis, and most might not realize the intent of the project to improve water quality and reduce downstream sewer overflows. The project was selected for an American Council of Engineering Companies (ACEC) National Excellence Award for innovative stormwater management, and I had the honor of traveling to Washington D.C. to accept the award. I am proud to travel and attend Pearl Jam concerts when possible. My brother and I have probably been to around 15 of their concerts, including seeing them three different times at Wrigley Field in Chicago. You could call it a guilty pleasure, but I don’t feel guilty about it and still enjoy the music!

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proud to have played a key design role on the project. I take a lot of pride in all of the projects I have worked on, and it’s very fulfilling to have an opportunity to show my children these meaningful projects.

KY ENG: What does being selected as Kentucky’s Young Engineer of the Year mean to you?

Chris: I was extremely honored and humbled when I learned that I had been selected as the Young Engineer of the Year. The previous award winners and current young engineers throughout Kentucky have certainly raised the bar! Most may perceive this to be an individual award, but I tend to think of it as a team award to share with all of the people I have interacted with over my early career. I have been very blessed to have phenomenal co-workers at Strand Associates, as well as colleagues at other firms that I have a lot of respect for. I’ve also had the pleasure to provide engineering services to numerous clients that have been amazing to work with. I don’t have the space to recognize everyone, but I share this award with all those who have helped to shape my career. This award is also a testament to my wonderful parents who have always instilled in me the importance of hard work. They have been great role models my entire life.

KY ENG: You are a member of KSPE – what things are most important to you in being a member?

Chris: There are several reasons that I consider important to being a member of KSPE. The first thing that comes to mind is the relationships formed with other engineers. I’ve been actively engaged in the Northern Kentucky chapter for over a decade, and the relationships and interaction with colleagues on a monthly basis has helped me grow from a professional standpoint. Second, the KSPE organization does an excellent job promoting the engineering profession. So many people within KSPE dedicate significant time and energy to promote and protect our profession. Finally, the continuing education credits offered by KSPE provide an excellent opportunity to learn about exciting engineering topics and projects.

KY ENG: Thinking of the future, what things does KSPE need to do to remain attractive to younger members?

Chris: Active KSPE members need to continue encouraging younger engineers or EITs to join KSPE. Communicating the value and benefits of participating in a professional organization like KSPE can go a long way to attracting new or young members. KSPE members can also make an effort to be more visible by promoting the engineering profession at local high schools and universities. I would also suggest a bigger presence on social media to promote KSPE, but I can’t offer much advice on that despite being considered a young engineer!

Once again - congratulations, Chris!

Chris with wife Heather.

Chris and his children heading to the ballpark.
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