Kentucky has the potential to become a leading force in advanced manufacturing—an industry priority for the Commonwealth and a critical element in our state’s future economic growth and prosperity.

The University of Kentucky College of Engineering is doing its part by:

- Working to increase the number of bachelor’s degrees awarded in engineering and computer science by 65 percent, from 631 graduates per year (2017) to more than 1,050 graduates per year (2024)
- Deepening industry-university engagement to improve student preparation
- Expanding partnerships with industry that provide solutions to technical and business problems and make Kentucky industry more competitive

No matter how the world changes, the need for high-quality, sustainable, advanced manufacturing persists. We look forward to partnering with industry and government to make Kentucky a world leader in this vital area.
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I have been a member of KSPE since 1992. I had just switched jobs and was encouraged by my new employer to join. I treated it as a mentoring recommendation, no different from a financial recommendation, or where to eat lunch. As I look back I was extremely fortunate to be working for a company that understood and recognized the advantages of membership in KSPE. From a personal standpoint, I’m so glad I acted on that recommendation. It has been a great investment for Kelly Meyer. It was a great mix of public and private employees at meetings - with the common denominator being they were leaders in their respective organizations. In my day to day activities I found myself interacting with many of these same people. The doors had already been opened based on the relationships developed through KSPE. I encourage current KSPE members to steer their employees toward KSPE and influence an employee’s career as positively as I was.

Since my last report…

**Steve Gardner**

Steve Gardner, President and CEO of ECSI, LLC (an ACEC-KY member firm), was nominated in the fall by President Trump to be the next Director of the Office of Surface Mining, Reclamation & Enforcement in the US Department of the Interior. I want to personally congratulate Steve, but more importantly I want to thank him for his years of service to KSPE. I had known Steve from a distance, but got to meet him personally at the NSPE convention in Dallas. He’s a class act.

**Current Economic Climate**

In many sectors of the country the economy is red hot, primarily based on private spending. Unfortunately the same cannot be said for spending originating from government sources. Many of our firms and agencies are feeling the repercussions and hoping that the commitments by our government leaders to increase infrastructure investment will become a reality. As membership organizations, KSPE and ACEC-KY are impacted similarly since a major percentage of our yearly income is derived from our professional development program. Employers, both public and private, cannot justify sending staff out the back door for training when work is not coming in the front door. As the opportunities arise, encourage your elected leaders – at the local, state and federal levels – to adequately fund our public infrastructure needs.

**2018 Legislative Session**

As I’m writing this report I’m watching Governor Bevin’s State of the Commonwealth and Budget address, which indicates a 6.25% cut for most state agencies. Details related to pension reform, tax reform (revenue enhancement), and a possible increase in the gas tax were limited. However, we all know that significant changes are inevitable and coming. At this point, the traditional radio advice to “stay tuned” has never held more truth. With that said, KSPE is on alert, and I would like to note how very impressed I am with the legislative knowledge of our Executive Director, Russ Romine. Working closely with our Legislative Chair, Ben Edelen, and our legislative agents, the staff at the Kentucky Engineering Center provide a weekly update that is distributed to all KSPE & ACEC-KY members. The update gives insight into the major items of the legislative session and tracks all actions that have potential impacts to the engineering profession and the business of engineering. It’s an excellent report and is one of the best examples of your KSPE dues at work. Then, when pending legislation requires action, either in support or opposition, your organization’s leadership will mobilize the membership and utilize the full extent of KSPE’s influence and resources. The bottom-line, KSPE is on-duty looking after the interests of the Professional Engineer in Kentucky.

**MATHCOUNTS Chapter and State**

My initial involvement with KSPE started with helping at a chapter MATHCOUNTS event. Your opportunities this year are February 17 at the chapter level and March 24 at the University of Kentucky for the state event. I encourage you to make the time to support your chapter’s event and the state event if possible.

**Chapter Visits**

My travels around the state continue. I was fortunate to attend the Capital Chapter’s annual Chili Cook-off in December, which is a fundraiser for their MATHCOUNTS chapter event. It was a small crowd, but a quality crowd. Almost every person attending has provided significant service to KSPE’s
programs. Kudos go out to Capital Chapter President Ryan Stevens for his efforts in organizing the event. Once again, if you make things fun, people will show up!

**Lifelong Learning**

One of my personal points of emphasis is for Lifelong Learning. The mindset is important for all individuals, but it is specifically applicable to the engineering community. I encourage you to make it a priority. My example this month is the “Internet of Things (IoT).” The term and acronym recently caught my attention. It was coined by Kevin Ashton of Procter and Gamble in 1999. It is basically the network of physical devices that enables systems to be connected and data exchanged. I direct you to Wikipedia for a proper definition. My reason for referencing is it speaks to the explosion of new technology that is impacting how we do business, or unfortunately, if we don't embrace the technology, how we don't do business.

In our personal and professional lives we need to constantly be on watch and not be afraid to accept change. It seems like yesterday, but in 1993 my wife and I were sitting in our kitchen with an encyclopedia salesman getting ready to sign a contract to buy a hard-copy set. My family had a set of books when I was a kid and we wanted to give our kids the same opportunity. We thought it was every good parent's responsibility. It was the salesman's second visit. There was blood in the water and he was eager to ink the deal. Fortunately, but unfortunately for him, I started asking questions about the digital age that was coming. The salesman sensed where this was going and actually became irritated. His behavior solidified my decision not to purchase, but I had already decided the hard-copy days were numbered. Make Lifelong Learning a priority for you. Who could have ever imagined that we would not need a 32-volume set of Encyclopedia Britannica, or that Kennedy's Book Store in Lexington would close because, “we couldn't compete with the internet.”

As we start the push out of winter, a second request is to make a commitment to attend a chapter meeting in your area. I can guarantee it will be time well spent. And finally, as always, best wishes for success in 2018. Please contact us at the Kentucky Engineering Center if we can help you, or your employer in any way.
On January 2nd, the 2018 Kentucky General Assembly gavelled in for the first of its 60-day legislative session. In addition to the development and adoption of the 2018-20 Biennial Budget and the next Six-Year Highway Plan, legislators will tackle issues ranging from foster care, to criminal justice reform, to public pensions. Like other legislative sessions, most of the bills and resolutions will not have a direct impact on you as a professional engineer, but some may. With the help of our joint KSPE/ACEC-KY Legislative Committee, Committee Chairman Ben Edelen, and our legislative agents from the Rotunda Group, your staff at the Kentucky Engineering Center will track legislative proposals and actions that could impact your profession.

As a KSPE member, please look for regular legislative updates in your email inbox. I encourage you to contact me if there are issues or concerns you would particularly like to draw our attention to during the session.

For additional information on the 2018 Regular Session, please continue reading below.

**New NSPE Business/Membership Model: KSPE Votes to Integrate**

As a regular reader of the Kentucky Engineer, you are aware of the impending changes to NSPE’s membership model. The leadership of KSPE and your staff at the Kentucky Engineering Center have been engaged in ongoing, related discussions over the last 18 months and have attempted to analyze these changes and how they would impact you as a KSPE member.

As previously reported in this space, the analysis and discussions surrounding the new business/membership model culminated with a vote by the NSPE House of Delegates during the annual conference in Atlanta last summer. Since that time, efforts have shifted toward preparing the national organization and the state societies for implementation on July 1, 2018.

Having weighed the benefits, on December 28th the KSPE Board of Directors voted to adopt the new model and maintain our close affiliation with NSPE. As a state membership organization, KSPE’s decision to integrate and partner with NSPE and its network of state societies means that your voice on issues impacting the engineering profession will be as loud as ever. The new model does not redefine or modify NSPE’s or KSPE’s vision; rather, it strengthens the voice of the professional engineer in Washington, and in state houses around the country, by more clearly linking the networks and membership experiences of state societies and the national organization. If you are not currently a three-tier member (local/state/national), I encourage you to consider making that change as your membership renewal date approaches.

Full implementation of the new model will take effect on July 1, 2018. To properly prepare for implementation, President Kelly Meyer has created a special workgroup that will be led by President-Elect Matt Rogers. Stay tuned for more details on the new model in the weeks and months ahead. In the meantime, the staff at the Kentucky Engineering Center is ready to answer any questions you have.

**Governor Bevin Addresses Membership**

On December 8th, many KSPE members joined with ACEC-KY to hear Governor Matt Bevin discuss issues he thinks are critically important to Kentucky as the 2018 General Assembly begins its work. Originally scheduled to speak 15 minutes, we were grateful for the 45 minutes Governor Bevin spent with our members. It was an honor to host the governor, and it was a fantastic opportunity for him to hear directly from you about issues that are important to the profession and to the business of engineering.

Through a question to the audience, Governor Bevin reinforced a vision he shared during his State of the Commonwealth address last year…

A vision that includes making Kentucky the engineering and manufacturing “hub of excellence” in America. Speaking to the group, the governor asked, “When you think of engineering, what European country immediately comes to mind?” Governor Bevin continued, “Just as quickly as each of you said Germany, I want Kentucky to be the recognized leader of engineering excellence in the United States.”

In support of the governor’s statement, KSPE and ACEC-KY leaders have expressed our commitment to helping make his vision a reality. Through active involvement in KSPE, you help ensure that our elected officials understand and appreciate the issues that are important to you and your profession.

**Kentucky General Assembly – 2018 Regular Session Begins**

As mentioned above, the legislature arrived in Frankfort just after the new year began. Unfortunately, since a special legislative session dealing with public pension reform did not happen last year (as originally thought), that issue continues to dominate the conversation early
in the session. As I write this column, no pension reform proposal has been introduced in the legislature.

Speaking to a joint session of the General Assembly on Tuesday evening, January 16th, Governor Bevin shared details of his biennial budget proposal. In addition to noting strategic investments included in his recommended 2018-20 biennial budget, the governor said some current government programs have been targeted for elimination. In all, his proposal removes appropriations supporting 70 programs across state government and, in addition, reduces most state spending by 6.25% across the board. Describing his budget as “difficult but honest,” Governor Bevin said these cuts and reductions are necessary to get Kentucky’s financial health in order.

On the issue of public pensions, the governor’s budget dedicates $3.31 billion over the upcoming two years to fully fund state employee and teacher pension plans. In the absence of reform, that level of funding is necessary to meet the current commitments of these two pension systems. Governor Bevin will continue to highlight the need for reform as the 2018 Regular Session continues, and said some of the proposed cuts could be avoided if meaningful pension reform is adopted. Additionally, during his address, the governor stressed the need for tax code modernization, and said that if it cannot be addressed during this session, a special session will be called later this year.

The current 60-day session is scheduled to adjourn on Friday, April 13th.

For additional information on the Governor’s budget proposal, please visit the Office of State Budget Director’s website at www.osbd.ky.gov.

For information on Governor Bevin’s Recommended Highway Plan (“Six-Year Plan”), please visit the Kentucky Transportation Cabinet’s website (www.transportation.ky.gov) and look for a link to the “2018 Recommended Highway Plan.”

Upcoming Events
Here are some activities I'd like to draw your attention to in the coming weeks and months. For additional information on each of these, please visit the Kentucky Engineering Center’s website at www.kyengcenter.org:

• 2018 Legislative Reception, February 27 – As in past “budget session” years, KSPE will join with ACEC-KY and the Kentucky Association of Highway Contractors (KAHC) to host a reception honoring members of the Kentucky General Assembly. The event will be held at the KAHC offices in downtown Frankfort from 5:00 pm to 7:00 pm (EST).

• 2018 KSPE Annual Convention, April 18-20 – Mark your calendars and make plans to attend this year's annual convention in Owensboro. A full schedule of interesting speakers and workshops have been planned, so don’t miss out! Additional convention details are included in this edition of the Kentucky Engineer.

Special Recognition
It is with great pleasure that I recognize two valued and long-time members of KSPE, Steve Gardner and Marco Rajkovich. Both have recently received nominations by President Donald J. Trump to fill important roles in his administration in Washington, D.C.

J. Steven Gardner is President and CEO of ECSI, LLC in Lexington and has been nominated to become the next Director of the Office of Surface Mining, Reclamation & Enforcement at the U.S. Department of the Interior. Steve has 40 years’ experience in mining, engineering, reclamation, environmental, health and safety matters.

Marco M. Rajkovich, Jr. was a long-time partner in the law firm Rajkovich, Williams, Kilpatrick & True, PLLC and has been nominated to serve as Member and Chairman of the Federal Mine Safety and Health Review Commission. Marco is also a licensed P.E. and has more than 30 years’ experience practicing mine safety and health law.

Both gentlemen are awaiting U.S. Senate confirmation before assuming their new roles. We wish Steve and Marco all the best as they accept this opportunity to serve President Trump and our country.

Final Thought
As many of you know, the Kentucky engineering community recently lost a true gentleman and strong advocate for the engineering profession. Charles Reece Scroggin passed away on November 17, 2017 at the age of 70. As you know, Charlie had been a steadfast presence in the endeavors of both KSPE and ACEC-KY for many years. He was one of only a handful to serve as president of both membership organizations. Some of you may not know that more than 20 years ago, Charlie was an integral part of the founding committee that helped develop and implement the Leadership P.E. program in Kentucky. For many years, Charlie continued to teach and mentor young engineers in the program. Through people like Charlie, and through the continued support of its founding sponsors – KSPE, ACEC-KY and the Kentuckiana Post of the Society of American Military Engineers – the Leadership P.E. program has helped encourage, strengthen and build the professional careers of more than 300 participants.

As I’ve said before, the strength of KSPE is only as strong as its members. It has been through members and leaders like Charlie Scroggin that KSPE has built a legacy for which it can be proud. A continued commitment to the mission, vision and goals of KSPE is vital as we attract and develop the next generation of leaders in the engineering profession. Thank you for your continued dedication and service. If you are interested in specific opportunities to become more involved, please let me know.

Wishing you all the best!

Russell L. Powell
SAYING GOODBYE
Charles R. Scroggin
1946 - 2017

SCROGGIN, Charles Reece, loving husband of Ann Stewart Scroggin, died Nov. 17, 2017. He was born December 1, 1946 and grew up in Williamstown, KY. He was preceded in death by his parents Fred and Jane Scroggin. He is survived by a daughter Lindsey Scroggin Baker, her husband William Baker, and two grandchildren, Nora and Olivia Baker; a son Jason Reece Scroggin; and two sisters, Joyce Colson and Ann Sydnor. He is also survived by several nieces and nephews.

Charlie attended Williamstown Elementary School and graduated from Grant County High School in 1965. While in high school he participated in basketball, baseball and track. Charlie attended the University of Kentucky, where he was a member of Sigma Alpha Epsilon Fraternity, and graduated with a Bachelor of Science in Civil Engineering in 1970 and with a Master of Science in Civil Engineering in 1972. His education was delayed in 1969 while he served on active duty in the U.S. Army Reserves. While in college, he worked for the Kentucky Transportation Cabinet and the Kentucky Division of Water.

After graduating, Charlie focused on planning and designing municipal water and wastewater systems for Hayes, Seay, Mattern, and Mattern in Roanoke, Virginia; and, subsequently for GRW Engineers in Lexington, Kentucky. Next, he joined PDR Engineers where he ultimately became a Principal and was responsible for Water, Wastewater, and Transportation Engineering. In November 1989, Charlie cofounded Quest Engineers. The consulting engineering firm established offices in Lexington, Louisville, and Cincinnat; and specialized in Water, Wastewater, Transportation, Site Development and Electrical Engineering. Charlie served as President and Chairman of Quest and led a 2007 merger with HDR Engineering, a nationally ranked firm headquartered in Omaha. After the acquisition, he served as a Senior Vice President with HDR Engineering and was responsible for Kentucky, Ohio, and Tennessee. For over 40 years, Charlie served as Project Manager or Principal-in-Charge on numerous municipal water / wastewater projects with cumulative construction costs exceeding $1 billion. He had Professional Engineering Licenses to practice in 11 states.

In January 2015, Charlie was appointed by Governor Steve Beshear to the Kentucky State Board for Licensure for Professional Engineers and Land Surveyors. The Licensure Board protects the public health, safety, and welfare through the regulation of the engineering and land surveying professions. His involvement with the University of Kentucky included serving: as the President of the College of Engineering Alumni Association, on the Department of Civil Engineering Advisory Committee, on the Alumni Association National Board of Directors, on the Dean of Engineering Search Committee, on Civil Engineering Department Chair Search Committee, and 12 years as a guest speaker for the graduate course. Charlie received the Department of Civil Engineering Career Achievement Award in 2014.

Charlie's professional service began early as a member of the Kentucky Society of Professional Engineers (KSPE) in 1974, where he developed lasting friendships. During his career he served as State President of the: Kentucky Society of Professional Engineers, American Council of Engineering Companies, and American Society of Civil Engineers. Charlie was also on the founding committee for “Leadership Professional Engineer” (LPE) and served as State Chair. LPE is a statewide leadership development program for young engineers. KSPE recognition includes awards for: Outstanding Young Engineer, Private Practice, Distinguished Service, D.V. Terrell, and Leadership PE.

Other activities for Charlie included serving: on the Central Bank Advisory Board, as a Dale Carnegie Leadership Instructor, as Chair of Spiritual Leadership Inc. Board, active participant in Bible Study Fellowship for over 10 years, and as Vice Chair of the Leadership Kentucky Board where he received the Jack Paxton Leadership Award. In September of 2017, the College of Engineering named a collaborative design lab in his honor.

Charlie was an active member of St. Luke United Methodist Church where is served as Finance Chair for several years. In his spare time Charlie enjoyed traveling with his family, jogging, boating, water skiing and spending time with his family at their cottage on Lake Cumberland.

Memorials contributions are suggested to St. Luke United Methodist Church; BSF International, Global Headquarters, 19001 Huebner Road, San Antonio, TX 78258-4019; Spiritual Leadership, Inc. P.O. Box 21910, Lexington, KY 40522; or the ALS Association, Kentucky Chapter, 8640 Haines Drive, Suite F, Florence, KY 41042.

The University of Kentucky’s College of Engineering will be redesigning and unveiling a collaborative design lab in Charlie’s honor. The new lab will be named the Charlie R. Scroggin, P.E. / HDR Collaborative Design Lab. It will serve both as a traditional classroom and as customizable work stations that will facilitate flexible and creative active learning collaborations among students. For more information regarding the Collaborative Design Lab, contact Betsy Davies with UK’s Office of Alumni & Philanthropy at Elizabeth.Davies@uky.edu.
Board Members
Governor Bevin has made the following Board member appointments:

James J. Bertram, Jr., PLS replaces Robert W. Fentress, PLS whose term as a KAPS representative expired.

Daniel Clay Kelly, PE replaces Kenneth Sperry whose term as a KSPE representative expired.

Doug Klein replaces Beverly Smith whose term as our Public Member expired.

We welcome the new members and thank the departing members for their service to the Board, the professions, and the citizens of the Commonwealth.

Board Officers
Officer elections were held at the January 12, 2018 Board meeting and the following slate was elected unanimously:

Don Pedigo, PLS – Chair
Herb Goff, PE – Vice Chair
Bill Bowie, PE, PLS – Secretary / Treasurer

Chair Pedigo made the following committee chair appointments:

Herb Goff, PE – Chair of the Engineering Committee
Bill Bowie, PE, PLS – Chair of both the Surveying Committee and the Continuing Professional Development Committee.

Congratulations to all.

PE Exam Changes
All PE exams are being transitioned to Computer Based Testing (CBT). Following is the schedule:

2018 – Chemical, Nuclear
2019 – Environmental, Petroleum
2020 – Mechanical, Fire Protections, Industrial
2021 – Electrical, Agricultural, Mining
2022 – Software, Naval Architecture
2023 – Civil
2024 – Structural

Pass Rates
The pass rates for the October 2017 “paper and pencil” PE exams are as follows. The first % is the Kentucky rate and the second % is the national rate:

First Time Takers – 66%; 67%
Repeaters – 55%; 39%
Total – 62%; 58%

The pass rates for calendar year 2017 Computer Based Testing (CBT) are as follows. The first % is the Kentucky rate and the second % is the national rate:

Fundamentals of Engineering:
First Time Takers – 80%; 70%
Repeaters – 49%; 37%
Total – 74%; 63%

Fundamentals of Surveying:
First Time Takers – 67%; 50%
Repeaters – 14%; 26%
Total – 47%; 41%

Principles & Practice of Surveying:
First Time Takers – 53%; 63%
Repeaters – 50%; 36%
Total – 53%; 56%

Calendar of Events 2018
April 26   Committee Meetings
          Frankfort KY
April 27   Board Meeting
          Frankfort KY
April 13   PE, STR Vertical Exams
          Louisville KY
April 14   STR Horizontal Exam
          Louisville KY
April 19-21 NCEES Southern Zone Meeting
           Charlottesville VA
July 26    Committee Meetings
           Frankfort KY
July 27    Board Meeting
           Frankfort KY
August 14-18 NCEES Annual Meeting
            Scottsdale AZ
October 11 Committee Meetings
            Frankfort KY
October 12 Board Meeting
            Frankfort KY
October 26 PE, STR Vertical Exams
            Louisville KY
October 27 STR Horizontal Exam
            Louisville KY
JOSEPH LEWIS
In December 2016, the Board received information that Joseph Lewis of Columbus, Ohio had practiced professional engineering on an expired license, in violation of KRS 322.020. A board investigation confirmed that Mr. Lewis had provided engineering services as a sub-consultant to an architect on four projects located in Kentucky between 2007 and 2016; and that his Kentucky professional engineer's license had expired in 2006. To resolve this matter, Mr. Lewis entered into an Agreed Injunction, which bars him from further unlicensed practice. No penalty was assessed for the current violation; however, the Agreed Injunction calls for a fine of $1000 and seven (7) days in jail for any future violation. The Agreed Injunction was entered in the Franklin Circuit Court on December 7, 2017.

JASON R. NEEDHAM, PE
On June 6, 2017, Jason R. Needham, PE of Eads, Tennessee pled guilty to one count of “Accessing a computer and obtaining information,” in violation of 18 USC Section 1030(a)(2)(C), a felony, in US District Court, Western District of Tennessee. Specifically, Mr. Needham accessed the computer system of his former employer without authorization, and thereby obtained information from a protected computer. On August 4, 2017, Mr. Needham was sentenced to eighteen (18) months imprisonment, two (2) years of supervised release upon release from imprisonment, and restitution in the amount of $172,393.71 to his former employer. In a Consent Decree with the Board of Licensure, Mr. Needham acknowledged that his actions in this case constitute violations of KRS 322.180 Sections 7 and 12; and the Code of Professional Practice and Conduct, 201 KAR 18:142 Section 9; and Mr. Needham voluntarily surrendered his Kentucky Professional Engineer’s license. The Board accepted the Consent Decree on January 12, 2018.

GARY W. MENETREY, PLS
On May 25, 2017 the Board of Licensure received copy of a survey plat prepared by Mr. Gary W. Menetrey, PLS of Alexandria. A review of the plat indicated numerous violations of the surveying Standards of Practice, 201 KAR 18:150. An expanded review of Mr. Menetrey’s recent property surveying work revealed a substantial pattern of violations of the Standards of Practice. Additionally, it was determined that Mr. Menetrey had failed to participate in any Continuing Professional Development activities during calendar years 2012 through 2016, in violation of 201 KAR 18:192; and that he had operated his surveying business on an expired Business Entity Permit since December 31, 2015 in violation of KRS 322.060. The matter was resolved through a Consent Decree wherein Mr. Menetrey acknowledged the violations and voluntarily surrendered his professional land surveyor’s license. The Board accepted the Consent Decree on January 12, 2018.

KAILASH C. JAIN, PE
Kailash C. Jain, PE of Evansville, Indiana 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 2017 online renewal that he had complied with the CPD requirements, in violation of KRS 322.180 Section 1. The case was settled by a Consent Decree wherein Mr. Jain acknowledged the violations and agreed to pay a $2000 fine. In addition to the fine, Mr. Jain agreed to a firm schedule by which he would make up his past due CPD obligation and agreed to submit documentation of his participation in CPD activities during the 2017 / 2018 reporting period. The Board accepted the Consent Decree on January 12, 2018.

ROBERT KELLY RICHARD, PLS
In April 2014, Mr. Robert Kelly Richard, PLS of Georgetown entered into a Consent Decree in settlement of a disciplinary action against him. Among other things, that agreement called for Mr. Richard to submit to a quarterly review of his surveying work. During the course of that review, it was determined that Mr. Richard had failed to maintain adequate records on some of his surveys, in violation of 201 KAR 18:150 Section 10 (3). The matter was resolved through a Consent Decree wherein Mr. Richard acknowledged the violation and voluntarily surrendered his professional land surveyor’s license. The Board accepted the Consent Decree on January 12, 2018.

DUANE GUILFOIL, PE
Duane Guilfoil, PE of Midway was disciplined for failing to respond to an audit of his Continuing Professional Development (CPD) credits in a timely manner, in violation of 201 KAR 18:196. The case was settled by a Consent Decree wherein Mr. Guilfoil acknowledged the violation, and agreed to pay a $1000 fine. Additionally, Mr. Guilfoil agreed to provide documentation of his CPD activities for the 2017 / 2018 reporting period. The Board accepted the Consent Decree on January 12, 2018.

ROBERT BRUCE FISACKERLY, PE
Robert Bruce Fisackerly, PE of Bartlett, Tennessee was disciplined for failing to respond to an audit of his Continuing Professional Development (CPD) credits in a timely manner, for failing to participate in at least thirty professional development hours (30pdh) of CPD activities during the 2015 / 2016 reporting period, in violation of 201 KAR 18:196; and for providing professional engineering services in Kentucky through a business entity which did not hold a valid Business Entity Permit, in violation of KRS 322.060. The case was settled by a Consent Decree wherein Mr. Fisackerly acknowledged the violations, and agreed to pay a $2000 fine. Additionally, Mr. Fisackerly agreed to obtain a business entity permit for his firm, Advanced Energy Consultants, and to provide documentation of his CPD activities for the 2017 / 2018 reporting period. The Board accepted the Consent Decree on January 12, 2018.
### Attendee Information

Name: ___________________________ Company: ___________________________

Street Address: __________________ State: __________________ Zip Code: __________________

City: ___________________________ PO Box: ___________________________

Phone: __________________________ Email: ____________________________

Badge Name: _____________________

### Event Options

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### Event and Guest Tickets

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<td>Friday Lunch</td>
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### Session Options

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

**Wednesday, April 18th**

**Tour**
- Walking Tour of Smother's Park/Downtown
- Standards of Practice, Ethics & Code of Conduct
- Foundation Design...Keeping Your Airport Firehouse Where You Want It!
- Mine Subsidence Engineering: An Overview
- The 7 Keys to A Successful Asphalt Parking Lot

**1:00 - 5:00 pm**
- An Evolving Understanding of Utility Coordination and Utility Engineering in DOT Programs
- Forensic Engineering 101
- What You Design Is Not Necessarily What You Get

**3:15 - 4:00 pm**
- Natural Gas - Energy for the (Near) Future
- QBS Update
- Giving Expert Legal Testimony - Pinnacles and Pitfalls

**4:00 - 5:00 pm**
- Meeting People Where They Are: The Next Generation of Public Engagement
- Reinforced Precast Box Culvert Applications, Design & Installation
- Gateway Commons

**Thursday, April 19th**

**Tour**
- Elmer Smith Power Plant Tour

**6:00 - 8:50 am**
- Infrastructure Funding in Kentucky - Where We Are Today
- Guide for Design & Construction of Concrete Site Paving for Industrial & Trucking Facilities
- Big Construction in Small Spaces: Louisville MSD 4th Street Flood Pump Station
- Environmental Permitting for Facility and Development Projects
- 3D Hydrology Design

**9:20 - 10:10 am**
- Louisville Bridges Tunnel Construction
- Structural Precast Building Members
- Key Considerations for Choosing Underground Detention & Manufactured Water Quality Solutions
- 3D Laser Scanners Demo
- Fundamentals of Lagoon Aeration

**Thursday, April 19th (continued)**

10:40 - 11:30 am
- Ground Penetrating Radar and Pavement Design/Rehab
- Design and Construction and Use of Prestressed Concrete Tanks
- Bolted Joints
- Churchill Downs West Improvements
- Maxey Flats Disposal Site - Final Closure Gap 2017

**Afternoon Tour**
- Riverport Authority

1:30 - 2:20 pm
- Connected & Autonomous Vehicles
- Advances in Drilled Shaft Testing Techniques
- KAW's Critical Infrastructure Relocation Along Brannon Road
- Scenic Lake Dam - Liquefaction Analysis and Deep Mixing Method Construction
- MSD Topic

2:50 - 3:40 pm
- Designing from the Bottom Up
- Connecting with the Community - Louisville MSD's Logan CSO Basin
- Taming the Rivers: The Untold Story of the Mississippi River Basin Model
- RWRA - UV Enhancements at WWTPs
- Replacing Booster Pumps in a Growing and Changing Water Distribution System

4:10 - 5:00 pm
- Possibilities of P3 - New Public-Private Partnership Law Creating Opportunities Across the Commonwealth
- US 60 Spottsville Bridge Design Challenges
- Financial Planning
- Kentucky River Station Dewatering of Submerged Launder Sedimentation Process
- Advancing Technologies: Utility-Scale Solar PV and Energy Storage in Kentucky

**Friday, April 20th**

7:30 - 10:00 am

**STEM Highlight**

10:00 - 10:45 am Sessions
- 1-69 Ohio River Crossing - A Second Chance
- GIS Project Delivery for Water Infrastructure Projects
- Updated Intellectual Property Law Issues

10:45 - 11:30 am Sessions
- 2018 Highway Plan
- Foundation Underpinning & Support - Historic Fayette Co. Courthouse
- Common Sense Negotiating
Thank You!

We wanted to take a moment to thank all those who have helped us organize the sessions these year - they have been an outstanding group to work with! We also want to thank all those who have agreed to speak at the 83rd 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!

2018 KSPE Annual Convention

<table>
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<tr>
<th>Morning</th>
<th>Registration</th>
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<tr>
<td>Technical Sessions</td>
<td>Room 1</td>
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<tr>
<td>1:00 - 1:50 pm</td>
<td>Foundation Design... Keeping Your Airport Firehouse Where You Want It! Mark Day, PE, AAE, Bluegrass Airport; Craig Barnett, PE, HDR, Inc</td>
</tr>
<tr>
<td>3:15 - 4:00 pm</td>
<td>Natural Gas - Energy for the (Near) Future Robert Barron, PE, and Tony Huff, PE, FASCE, President/CEO of THA Engineering</td>
</tr>
<tr>
<td>4:00 - 5:00 pm</td>
<td>Meeting People Where They Are: The Next Generation of Public Engagement Kerri Richardson and Mindy Peterson, C2 Strategic Communications</td>
</tr>
<tr>
<td>Evening</td>
<td>Icebreaker - BBQ &amp; Bluegrass Picnic on Kentucky Legend’s Pier from 6:00 pm - 10:00 pm (RSVP Required)</td>
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Evening Icebreaker - BBQ & Bluegrass Picnic on Kentucky Legend’s Pier from 6:00 pm - 10:00 pm (RSVP Required)
## 2018 KSPE Annual Convention

### THURSDAY, April 19, 2018

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<tr>
<th>Time</th>
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<th>Tours</th>
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<tr>
<td>8:00 am - 4:30 pm</td>
<td>8:00 - 8:50 am&lt;br&gt;Infrastructure Funding in Kentucky - Where We Are Today&lt;br&gt;Juva Barber, Executive Director, Kentuckians for Better Transportation</td>
<td>Guide for the Design &amp; Construction of Concrete Site Paving for Industrial &amp; Trucking Facilities: ACI 330.2R-17&lt;br&gt;Amanda Hult, NRMA, Senior Director of Local Paving</td>
<td>3D Hydrology Design&lt;br&gt;Bruce Carlson, Carlson Software</td>
<td>Big Construction in Small Spaces: Louisville MSD’s 4th Street Flood Pump Station&lt;br&gt;Aaron Thompson, PE, HDR; Kyle Guthrie, PE, HDR; and Josh Dickerson, PE, Louisville MSD</td>
<td>Environmental Permitting for Facility and Development Projects&lt;br&gt;Patricia A. Mason, PE, Smith Management Group</td>
<td>Elmer Smith Power Plant Tour</td>
</tr>
<tr>
<td>9:20 - 10:10 am</td>
<td>Louisville Bridges Tunnel Construction&lt;br&gt;Barry G. Sanders, PE, HMB Professional Engineers</td>
<td>Structural Precast Building Members&lt;br&gt;Christopher J. White, PE, Bristol Group, Inc.</td>
<td>Key Considerations for Choosing Underground Detention and Manufactured Water Quality Solutions&lt;br&gt;Samantha Brown, Regulatory Manager and Angie Bidlack, PE, Area Manager, Contech Engineered Solutions</td>
<td>3D Scanners Demo&lt;br&gt;Ben Shinabery, Qk4</td>
<td>Fundamentals of Lagoon Aeration&lt;br&gt;Patrick Hill, Triplepoint Environmental and Shawn McKay, PE, KLM Sales and Service</td>
<td>Elmer Smith Power Plant Tour</td>
</tr>
<tr>
<td>10:40 - 11:30 am</td>
<td>Ground Penetrating Radar and Pavement Design/Rehab&lt;br&gt;Brad W. Rister, PE, Kentucky Transportation Center</td>
<td>Design and Construction and Use of Prestressed Concrete Tanks&lt;br&gt;Ryan Harvey, PE, SECB, Preload</td>
<td>Bolted Joints&lt;br&gt;Joel Lenoir, Western Kentucky University</td>
<td>Churchill Downs West Improvements&lt;br&gt;Neal Crawford, PE, Qk4</td>
<td>Maxey Flats Disposal Site - Final Closure Cap 2017&lt;br&gt;Jeff Garrison, PE, The Walker Company and Tim Hubbard, KDEP</td>
<td>Elmer Smith Power Plant Tour</td>
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<tr>
<td>11:30a - 1:30 pm</td>
<td>Lunch</td>
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<td>1:30 - 2:20 pm</td>
<td>Connected &amp; Autonomous Vehicles&lt;br&gt;David Durman, KYTC-HSIP; Shane McKenzie, PE, KYTC-Strategic Planning; Brian Schroeder, PE, KYTC-Maintenance; Eileen Vaughan, PE, KYTC-Strategic Planning</td>
<td>Advances in Drilled Shaft Testing Techniques&lt;br&gt;Michael R. Sharpe, PE, GRL Engineers, Inc. and Rozbeh B. Moghaddam, PhD, PE, GRL Engineers, Inc.</td>
<td>KAW’s Critical Infrastructure Relocation Along Brannon Road&lt;br&gt;Krista Citron, PE, Kentucky American Water and Ryan D. Tinsley, PE, Strand Associates, Inc.</td>
<td>Scenic Lake Dam - Liquefaction Analysis and Deep Mixing Method Construction&lt;br&gt;Glen Alexander, PE, KDOW; Mark Jones, PE, AECOM; and Bethany Shain, PE, AECOM</td>
<td>MSD Topic&lt;br&gt;Wes Sydnor, PE, Louisville MSD</td>
<td>Riverport Authority Tour</td>
</tr>
<tr>
<td>2:50 - 3:40 pm</td>
<td>Designing from the Bottom Up&lt;br&gt;Brent Sweger, PE, KYTC</td>
<td>Connecting with the Community - Louisville MSD’s Logan CSO Basin&lt;br&gt;Michael Rudisell, PE, HDR and William Marshall, PE, Louisville MSD</td>
<td>Taming the Rivers: The Untold Story of the Mississippi River Basin Model&lt;br&gt;Scott Lange, PE, L&amp;R Engineers, Inc.</td>
<td>RWRA - UV Enhancements at WWTPs&lt;br&gt;Mark Sneve, PE, Strand Associates, Inc.</td>
<td>Replacing Booster Pumps in a Growing and Changing Water Distribution System&lt;br&gt;Jeff Schuchter, PE, NKWD; Alan Bryan, PE and Josh Flanery, PE, GRW</td>
<td>Riverport Authority Tour</td>
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<tr>
<td>4:10 - 5:00 pm</td>
<td>Possibilities of P3 - New Public-Private Partnership&lt;br&gt;Law Creating Opportunities Across the Commonwealth&lt;br&gt;C2 Strategic Communications, P3 Kentucky</td>
<td>US 60 Spottsville Bridge Design Challenges&lt;br&gt;Tony Hunley, PE, Stantec; Sam King, PE, Stantec; Charlotte Cotton, KYTC D-2</td>
<td>Financial Planning for Professionals&lt;br&gt;Jeremy Edge, Financial Consultant/Vice President, Hilliard Lyons</td>
<td>Kentucky River Station Dewatering of Submerged Lander Sedimentation Process&lt;br&gt;Adam Tilley, Kentucky American Water</td>
<td>Advancing Technologies: Utility-Scale Solar PV and Energy Storage in Kentucky&lt;br&gt;Dr. Nick Jewell, PhD, EIT, Senior Research Engineer, R&amp;D at LG&amp;E</td>
<td>Riverport Authority Tour</td>
</tr>
<tr>
<td>Evening</td>
<td>President’s Reception from 5:30 - 7:00 pm&lt;br&gt;All Attendees Welcome</td>
<td>Lunch</td>
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2018 KSPE Annual Convention

FRIDAY, April 20, 2018

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:00 - 11:30 am</td>
<td>Registration</td>
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</table>
| 7:30 - 10:00 am | 7:30 am Breakfast Buffet Opens  
8:00 - 10:00 am STEM Highlight  
MATHCOUNTS Student Recognition & Awards, PLTW, Future City, and More! |
| 10:00 - 10:45 am | I-69 Ohio River Crossing - A Second Chance  
Marshall Carrier, PE, KYTC  
GIS Project Delivery for Water Infrastructure Projects  
Laura Mwirigi Rightler, PE, CFM and Jeremy M. Linley, PE, FRM, Civil Design, Inc.  
Updated Intellectual Property Law Issues  
Jim Eaves, Jr., PE, Patent Attorney, Bingham Greenbaum Doll LLP |
| 10:45 - 11:30 am | 2018 Highway Plan  
John Moore, PE, KYTC, Director of Planning  
Foundation Underpinning and Support - Historic Fayette County Courthouse  
Justin Anderson and Jarrod Hartshorn, Geostabilization International  
Common Sense Negotiating  
John W. Hays, Jackson Kelly PLLC |
| 11:45 am-1:30 pm | LPE Graduation | SPECIAL KEYNOTE LUNCH SPEAKER (TBA) |

KSPE’s Order of the Engineer Ceremony will be conducted during Thursday, April 19th’s lunch program, held at the Cincinnati Marriott at RiverCenter in Covington.

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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**February 2018**

**February 13-15**
MicroStation II - Kentucky Engineering Center, Frankfort

**February 27-March 1**
Highway Capacity Analysis - Kentucky Engineering Center, Frankfort

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**March 20-23**
InRoads I V8i SS4 - Kentucky Engineering Center, Frankfort

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**April 2018**

**April 18-20**
2018 KSPE Annual Convention - Owensboro Convention Center, Owensboro

**April 24-26**
InRoads II SS4 - Kentucky Engineering Center, Frankfort

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**May 2018**

**May 21-24**
InRoads III SS4 - Kentucky Engineering Center, Frankfort

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**September 2018**

**September 4-6**
2018 ACEC-KY/FHWA/KYTC Partnering Conference - Galt House Hotel, Louisville

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*Visit http://www.kyengcenter.org to see what other seminars are available!*

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Joe Watson, PE

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Cumberland Falls - None
Green River - Sean O’Bryan, PE
Kentucky Lake - None
Kentucky River - Chuck Mullins, PE
Louisville - Mike Budisell, PE
Mammoth Cave - Dusty Barrett, PE
My Old Kentucky Home - Matthew Hobbs, PE
Northern Kentucky - Daniel Doss, PE
Pine Mountain - Michael Jones, PE

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Cumberland Falls - Robert Zik, PE, PLS
Green River - Mike Vickers, PE
Kentucky Lake - none
Kentucky River - Chuck Mullins, PE
Louisville - Abbe Michalski, PE
Mammoth Cave - Matt Rogers, PE
My Old Kentucky Home - Robert Bush, PE
Northern Kentucky - Matt Stegman, PE
Pine Mountain - Michael Jones, PE

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Kentucky Engineering Center

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Jeffrey T. Schuchter, PE

Jeff Schuchter, P.E., of the Northern Kentucky Water District, has been awarded the Young Engineer of the Year Award from the Kentucky Society of Professional Engineers. Jeff received both a Bachelor’s of Science and Master’s Degree in Civil Engineering from the University of Louisville and a Master of Business Administration from Northern Kentucky University. Jeff is a licensed engineer in the State of Kentucky.

Over the course of his professional career, Jeff has routinely demonstrated technical expertise and professionalism in his many roles at the Northern Kentucky Water District. Jeff started as a staff engineer in 2006 and is now an engineering manager, managing the infrastructure and maintenance department. His passion for civil engineering and leadership skills has been demonstrated through the planning, design, and implementation of numerous projects for the Northern Kentucky Water District.

Jeff’s experience ranges from hydraulic analysis, construction inspection, operations, and project management to capital planning and budgeting. Jeff is thankful for the roles he has been entrusted and strives to promote continuous improvement and is driven to find the best solution to every challenge he faces. He is thankful to be surrounded by such great co-workers and continues to learn from their experience.

Jeff is actively engaged in the Northern Kentucky Society of Professional Engineers, serving in positions as Board of Director, Vice President, President, State Director, and currently serves as Secretary. Jeff is also active with the American Water Works Association, where he is chair of the Kentucky/Tennessee Section’s Non-revenue Water Committee.

Jeff resides in Campbell County, Kentucky with his wife Maria, and two boys, Ben and Sam.

Congratulations, Jeff!

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

Jeff: I grew up being the youngest of four boys so my brothers and I were always into something. We enjoyed playing in the woods, fishing, camping, and were always rough housing. I remember my dad taking us fishing and we would take turns paddling around in the boat. My fondest memories are of our family vacations, whether it was to Cumberland for spring break, or the occasional Florida summer trip, where if we were lucky, we would go deep sea fishing. I was and am blessed to have such great family and parents.

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

Jeff: I don’t know how my parents did it, but my three older brothers and I all played multiple sports year round. I attended Newport Central Catholic High School where I played soccer and baseball all four years and was the co-captain of the soccer team my senior year. I also played golf and basketball for one year. I volunteered for the Special Olympics, the school blood drive, and the senior citizens prom. I participated in other extra-curricular activities.
activities including the outdoor adventure club, Students for Life, Foreign Language Festival, and Pep Club. My high school experiences helped shape who I am today.

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

**Jeff:** Physics was the subject I enjoyed most in high school. I liked math also, but felt like physics provided more applicable math that I could relate to. I loved calculating how far a ball would fly at a certain angle. I wasn’t a big fan of chemistry or English.

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

**Jeff:** Growing up, I was always trying to build things. My dad would help me with wood working and I got a scroll saw for Christmas when I was around 10 years old. I remember always trying to dam the creek with mud and rocks in the backyard to build a pond, even though every rain would just wash it out. I was always good at math and science in high school and my parents suggested that I consider engineering as a college major. I participated in a program at the GE Aviation plant for high school students where engineers would speak about and demonstrate the wide variety of roles engineers played there. This helped spark my interest in the engineering world. I also enjoyed problem solving and my competitive side made me love a good challenge. I visited a few engineering colleges during high school and landed on the University of Louisville. Calculus worried me, but I got through it. I met some great people in college and stay in contact with a lot of my fellow classmates still today.

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

**Jeff:** I played intramural sports, and was always trying to organize teams for soccer, flag football, volleyball, basketball, and ultimate frisbee. It was a good break from the school work. I was also able to work part time at the Stream Institute my last two years and loved going out to survey streams. I was active with both ASCE and ASME student chapters.

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

**Jeff:** I enjoy spending time with my family and being outdoors, whether it is hunting, fishing, or camping. My wife Maria and I have been married for 11 years and have two awesome children, Ben 6, and Sam 3. I also enjoy coaching my children’s sports teams and have been coaching soccer, baseball, and basketball for the last few years. Any free time I have, I try to spend with my wife and kids. My wife seems to think that I plan our family vacations around the tides and the best fishing seasons.

**KY ENG: What one thing about Jeffrey T. Schuchter, PE KSPE**
Young Engineer of the Year, as I have met many other engineers who I feel are more deserving. I am honored to have been chosen and I think I owe it to my mentors and co-workers. I have had some great mentors who have given me good advice, especially when I was starting my career and wanted to fix every problem I saw. I have been fortunate to work with great engineers and co-workers who I have learned from and who have helped make our projects successful. It is a testament to the quality of engineers in the State.

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

Jeff: I am a member of KSPE for multiple reasons. First, I feel KSPE is the organization that best promotes and protects the profession and is the only organization that brings professional engineers together. Second, KSPE provides great networking and continuing education opportunities at chapter and state events. I am personally taking advantage of the Leadership PE program and have had the opportunity to meet great people that I otherwise would not have. Our Northern Kentucky Chapter is strong and has provided me with continuous networking opportunities and quality CPDs.

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

Jeff: Free lunches at general membership meetings for students? I think current members should be more active in recruiting from their own companies and encourage EIT’s to participate in the CPD sessions and join KSPE. In addition, KSPE needs to be more visible to non-engineers and high school and college students, via social media and college campus events. KSPE is a great organization, but most young people may not even know about it.

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

Jeff: I’m pretty much an open book, so that is a tough question. I like to cook and garden. Growing up, we always had a vegetable garden and I would help my mom, dad, and grandma plant and pick green beans. I enjoy being outdoors and love food so I guess it’s a natural fit.

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

Jeff: From 2010 to 2012 I oversaw the construction of NKWD’s advanced treatment projects that included granular activated carbon and UV disinfection. These were two of the largest projects ever undertaken by the District. I was able to meet and work with great contractors and engineers and am thankful for the opportunity. I learned a great deal about a myriad of topics overseeing these projects.

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

Jeff: I was proud to have been selected to oversee the District’s advanced treatment projects. I was lucky to be so involved in the daily construction and help keep them on schedule and on budget. I enjoy and am most proud to work on the harder and challenging projects that require thinking outside the box.

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

Jeff: I am humbled to have been chosen as Kentucky’s
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