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KSPE President M. Chad LaRue summarizes what has occurred over the last couple of months for KSPE.

**Executive Director’s Report**

ACEC-KY/KSPE/KEF Executive Director Russ Romine recaps what has been going on at the Kentucky Engineering Center over the past couple of months and events are upcoming.

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B. David Cox, Executive Director of the Kentucky Board of Licensure for Engineers and Land Surveyors, shares what’s been going on with the Board.

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Providing a full continuum of innovative solutions to restore and enhance the nation’s critical infrastructure.

### Michael Baker

We Make a Difference

Providing a full continuum of innovative solutions to restore and enhance the nation’s critical infrastructure.

Celebrating the 150th anniversary of the historic John A. Roebling Suspension Bridge

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## FROM THE SOCIETY

### 82nd Annual KSPE Convention

Check out what we have planned for the 82nd Annual KSPE Convention being held at the Cincinnati Marriott at RiverCenter in Covington on April 19-21, 2017. There are plenty of PDH opportunities available and networking events.

### 2017 KSPE Young Engineer of the Year

Meet KSPE’s Young Engineer of the Year, Erin B Wagoner, EIT. Erin works for the Louisville MSD as a Project Administrator working with the MS4 Stormwater Permit Program. Learn more about Erin and what has led her to become KSPE’s Young Engineer of the Year!
I hope this article finds you having enjoyed a joyous holiday season, having taken time to enjoy the people and the events that matter most to you, and re-energized to make 2017 a prosperous year.

As I write this article I am reflecting on why anyone should be a member of KSPE (or any group or association). Why pledge your hard earned money and, for some, their precious time? With so many other demands on our time, why seek to be involved and to be a member of KSPE? I can only speak to my reasons, but I hope for those engineers who are not currently members of KSPE, you will see value in my words and will reflect on the value of being a member of such an association; for those engineers who are already KSPE members, I hope some of my reasons will reaffirm your decision to become a member of KSPE.

- There is a need as human beings to be around those who have similar experiences, trainings, beliefs, and issues. There is value in speaking to those who share some of our experiences - and those who have traveled ahead on the roads we will travel in our lives - to learn from one another and to find comfort that we are not alone in our travels through life.

- While sometimes the tendency of the engineer is to work alone, I think we all realize that there are benefits to be gained when a group or society can work together for common causes. It allows for the pooling of strengths and talents of the individuals in a society, which gives a greater strength to the group than any one individual can bring to bear on their own. The larger and more representative the group is, the more strength is given to the group and subsequently to the individuals that make up that group.

- I have been part of groups and societies from which I have gained nothing, and from others that I got back tenfold what I put into them. The difference in what I got out of the society was generally directly proportional to how much I put into being a part of it. You see, it was my willingness and interest to be engaged and supportive of the society that determined what I got from the experience. The perfect analogy I have heard for being a member of a society (association, team, church, etc.) and not benefiting from it is that these memberships are no different than joining a gym. If you pay the dues to join the gym, never go to exercise or get involved in any of the group exercise classes, it is probably not the gym's fault that you didn't realize better fitness and health because of your membership with the gym.

The Kentucky Society of Professional Engineers and, at a higher level, the National Society of Professional Engineers provide the opportunity for engineers to gather together, discuss their shared experiences in the profession that we have chosen to make our careers, to find community and fellowship with other engineers in our area (city, county, state, country), identify the needs of our profession and the challenges and threats that face professional engineers in Kentucky, and work together to protect the profession.

To those who support KSPE with your membership dues and your time, thank you for making our society such a strong one. Your involvement allows KSPE to provide the trainings needed by our profession, conferences that share valuable and insightful sessions, leadership training for your companies’ and our society’s future leaders, advocacy work to both promote and protect our industry at the state and federal level, and many other services to provide benefit to you, its members.

To those who are not yet members of KSPE, I ask you to consider what you could get out of being a part of an organization that promotes and protects the profession with which you make your living. While we are a strong society now, we can be made even stronger and more effective with a more collective voice.

Sincerely,

M. Chad LaRue, P.E.
KSPE President
clarue@kahc.org
502-330-5579
If you haven't read it already, I'd like to draw your attention to the recent Q&A with Jason Stith, P.E., that appeared in the January/February edition of NSPE's PE Magazine. Jason works for Michael Baker International and is NSPE's 2016 Young Engineer of the Year. As KSPE's own, Jason has represented Kentucky – and the entire engineering profession – well as he continues to serve and promote his field in all that he does.

In PE Magazine’s “Leading Insight” column, Jason describes what he loves about being an engineer, why he pursued licensure, and talks about some of the challenges he's faced in his career. I was personally delighted to hear Jason describe his Kentucky Leadership PE experience as one of the greatest value-added benefits for anyone who participates. As he said, the content is extremely valuable, but the friendships and connections that are made are the best part.

These days we're all busier than ever, but Jason reminds us to not overlook the non-urgent, but important things in our lives. It's easy to become consumed with life's frantic pace, and to move from fire to fire, but we all need to heed Jason's advice and remember to set aside time to focus on the less urgent things. Often times those things don't scream for your attention, but they have great importance in your life and the lives of those around you. Very wise words from Kentucky's own National Young Engineer of the Year.

As 2017 begins to take shape, I encourage you to look for opportunities to connect with engineers in your area and begin cultivating relationships that will enrich your life. As a KSPE member, you have a unique opportunity to get involved and give back to the profession to which you belong. Local chapters meet regularly and provide networking and educational opportunities that can expand your network and increase your knowledge base. If you have any questions on how you can get more involved – at the state and local level – please call us at the Kentucky Engineering Center.

Since my last communication to you, here are some highlights of the activities we've been involved in, plus a preview of some of the events we have coming up...

**2017 Kentucky General Assembly**

The Regular Session of the 2017 Kentucky General Assembly got off to a fast start in early January. The first week of the session included a Saturday legislative day that saw final passage of seven bills, all priorities of the new Republican led Kentucky House of Representatives. Included in those bills that passed, were House Bill 3 – which repealed Kentucky's prevailing wage laws – and House Bill 1 and Senate Bill 6 – which dealt with right-to-work provisions and union dues collections from non-union members. All three of these bills included emergency clauses and became law upon Governor Bevin's signature on January 9.

Part II of the 2017 Regular Session will begin on February 7, the six legislative day of the session. This 30-day “short session” is currently scheduled to adjourn sine die on March 30. The Legislative Committee, led by Chairman Ben Edelen, will continue to monitor the actions and activities of both chambers during the session, and we will provide regular updates to KSPE members. If you are not on the legislative update email distribution list, please contact Jennifer Gatewood by calling the Kentucky Engineering Center at (502) 695-5680, or by emailing her at jennifer@kyengcenter.org.

**Qualifications-Based Selection (QBS)**

As I described in the last edition of Kentucky Engineer magazine, one of the first issues I worked on as your new executive director involved qualifications-based selection (QBS). As you will recall, we worked closely with the Kentucky Transportation Cabinet (KYTC) and expressed our concerns over the proposed repeal of certain QBS related administrative regulations. As reported, we were thankful that KYTC heard our concerns and withdrew their request for repeal. Through that process, we were able to reinforce the importance of QBS.

As many of you know, the KSPE/ACEC-KY Joint QBS Committee has been working to develop a long-term QBS strategy designed to educate, and to promote a strong qualifications-based selection process for all publically funded projects in the Commonwealth. Mark Willis, chair of the committee, has recently addressed both the ACEC-KY Board of Directors and the KSPE Board of Directors, seeking input and support for this renewed QBS effort. To serve as the vision for the committee's work moving forward, both boards took action to adopt a joint “position statement.” The newly adopted KSPE/ACEC-KY QBS position statement reads, as follows:
The QBS Committee will use this statement as a guidepost as they develop a sustainable, long-term strategy that promotes and fosters the use of a QBS process at all levels of government. The committee will continue its work and, at the upcoming KSPE Annual Convention, Mark Willis will share details of the strategic plan during a general session presentation. I’d like to thank all the members of the joint committee for their work on this issue, and say a special thanks to Mark for his willingness to lead this critically important effort.

Professional Development
We have recently concluded another successful slate of Fall one-day seminars across the Commonwealth. Attendance was up and we were pleased with the feedback and evaluations we received on the course offerings. We added a session in Ashland last year, and had a great response. We will be excited to return to Ashland this year, as well as many other locations throughout Kentucky.

Even though the one-day seminars are now over, there are still plenty of other professional development opportunities available, including the new Traffic Management Plan (TMP) training being conducted throughout the state. Be sure to check the Kentucky Engineering Center’s website (www.kyengcenter.org) for the latest offerings and what is coming up. Offering educational and training opportunities for our membership and the engineering community is one of the most important services we deliver. We appreciate your continued support!

2017 KSPE Young Engineer of the Year
I want to extend my congratulations to Erin Wagoner, EIT, with Louisville’s Metropolitan Sewer District, as she has been named this year’s KSPE Young Engineer of the Year. Erin will be our representative for NSPE’s 2017 Young Engineer of the Year competition. Erin is a highly-qualified candidate and will represent our Society well. Her desire to promote the profession and serve her community is an inspiration to us all. Join me in congratulating Erin on this wonderful achievement!

Get to know Erin better as you read more about her in this edition of Kentucky Engineer.

Coming Attractions
Here are some of the exciting events and opportunities that are coming your way…

• Local chapter MATHCOUNTS competitions will be held across Kentucky on Saturday, February 18. The statewide competition is at Western Kentucky University this year and will be held on March 24 and 25. Participation is up and the competition promises to be as exciting as ever. I’d like to say a special thanks for all the work that’s been done by our MATHCOUNTS Committee, and Chair Kristen Crumpton. I’d also like to thank those of you who continue to support MATHCOUNTS financially and through your participation as a volunteer at the chapter and state level competitions.

• The 19th edition of Leadership PE continues as this year’s class attends the Professionalism Session at General Butler State Resort Park on January 26 and 27. I personally look forward to leading the LPE Legislative Session on February 21 and 22 in Frankfort, then we move to Bowling Green for the Personal Management Session on March 8-10. Last year’s LPE Class will host the Alumni Session at the Louisville Science Center on Friday night, March 10. Finally, this year’s class will complete the program and graduate during the KSPE Annual Convention in April.

• Speaking of the 2017 KSPE Annual Convention, it is fast approaching. As detailed in this edition of Kentucky Engineer, the convention will be held at the Cincinnati Marriott at the RiverCenter in Covington on April 19-21. Please mark your calendars and plan to attend. We have a great line-up of speakers, and educational opportunities for everyone.

Final Thoughts
It’s been a busy few months since I came on board in September. One of the more rewarding things I’ve been able to do is to get out and meet many of you, our members. In November I had the opportunity to attend an Ashland Chapter meeting and meet with Chapter President, Kent Flanery, and some of the local members. In December, my wife was able to join me as we attended
THANK YOU!

After 20 years of service, George Binder retired as Executive Director for ACEC-KY/KEF/KSPE in 2013. After three years in retirement, we needed his leadership once again and he answered our call.

George was gracious enough to step in as Interim Executive Director as we made a transition in the Executive Director position here at the Kentucky Engineering Center during the Spring/Summer of 2016. Although words are not enough to describe how he has helped us, we want to express our gratitude for George’s service and leadership throughout the entire process. He was there to help the staff during the interim with different events, meetings and decisions; any time they needed a helping hand he was there. He stuck around and continues to be a resource for new Executive Director Russ Romine when he has questions or needs support. He committed 20 years of his life to building these organizations up that he was not willing to stand by when we needed him most and we thank him for that.

George – we once again thank you for your leadership and guidance this past year and hope that you have an easy transition back into retirement!

Leaders aren’t born, they are made. And they are made just like anything else, through hard work. And that’s the price we’ll have to pay to achieve that goal, or any goal. —Vince Lombardi
The Board has elected the following officers for 2017:
- Chair – Bob Fentress, PLS
- Vice Chair – Don Pedigo, PLS
- Secretary/Treasurer – Herb Goff, PE

Chair Fentress has appointed the following committee chairs:
- Engineering – Herb Goff, PE
- Surveying – Don Pedigo, PLS
- CPD – Bill Bowie, PE, PLS

We thank each of these members for their service.

Exam Results
The Fundamentals of Engineering (FE) and Fundamentals of Surveying (FS) results for calendar year 2016 are as follows. The first % is Kentucky and the second % is the national average:

- FE First Time Takers – 79%; 71%
- FE Repeaters – 39%; 35%
- FE Total – 71%; 64%

- FS First Time Takers – 67%; 46%
- FS Repeaters – 100% (two takers); 24%
- FS Total – 73%; 39%

The results from the October Principles & Practice of Engineering exam are as follows. The first % is Kentucky and the second % is the national average:

- First Time Takers – 63%; 69%
- Repeaters – 36%; 37%
- Total – 57%; 59%

The Principles & Practice of Surveying exam is now computer based like the fundamentals exams. From the opening in October through December 31, our pass rate and the national average were the same at 60%.

Upcoming PE Exam Changes
The PE Chemical Engineering exam will be administered in the pencil-and-paper format for the last time in April 2017. The exam will be converted to a computer-based test after that, with the first appointments available in January, 2018.

Calendar of Events 2017
April 13 Committee Meetings  
Frankfort KY
April 14 Board Meeting  
Frankfort KY
April 21 PE, STR Vertical Exams  
Louisville KY
April 22 STR Horizontal Exam  
Louisville KY
July 27 Committee Meetings  
Frankfort KY
July 28 Board Meeting  
Frankfort KY
August 23-26 NCEES Annual Meeting  
Miami FL
October 12 Committee Meetings  
Frankfort KY
October 13 Board Meeting  
Frankfort KY
October 27 PE, STR Vertical Exams  
Louisville KY
October 28 STR Horizontal Exam  
Louisville KY

ENFORCEMENT ACTIONS SUMMARY  
For The Period  
October 8, 2016 – January 13, 2017

MICHAEL C. SELPH
In 2015 the Board of Licensure received a complaint against Four Rivers Engineering & Land Surveying, PLLC of Eddyville. During the investigation of that complaint, it was discovered that a principal in that firm, Mr. Michael C. Selph was holding himself out to be a licensed professional land surveyor. Mr. Selph had at one time been licensed as a professional land surveyor in Florida, however he has never been licensed as a professional land surveyor in Kentucky. To resolve this matter, Four Rivers revised its website and advertising, and Mr. Selph entered into an Agreed Injunction which bars him from representing himself as a professional land surveyor in Kentucky until such time as he is properly licensed as a professional land surveyor. No penalty was assessed for the current violation; however, the Agreed Injunction calls for a fine of $1,000 and seven (7) days in jail for any future violation. The Agreed Injunction was entered in the Franklin Circuit Court on November 7, 2016.

GERALD PAUL SULLIVAN, PE
On April 1, 2016, Mr. Gerald Paul Sullivan, PE, of Orchard Park, New York entered into a Consent Decree in
settlement of a disciplinary action against him. Among other things, that agreement called for Mr. Sullivan to successfully complete a 30pdh online course in engineering ethics. Mr. Sullivan failed to submit proof of his completion of the course within the time specified in the Consent Decree. In accordance with the terms of the Consent Decree and after being notified of the default, Mr. Sullivan's professional engineering license was revoked. The suspension became effective November 18, 2016. According to the Consent Decree, Mr. Sullivan had thirty days from the date of the suspension to correct the default by completing the course or else his license would be revoked. Mr. Sullivan failed to correct the default within this time frame. In accordance with the terms of the Consent Decree and after being notified of his continuing default, Mr. Sullivan's professional engineering license was revoked. The revocation became effective January 5, 2017.

DANA DEAN TENNILL, PE
In February, 2016, Mr. Dana Dean Tennill, PE, of Saint Charles, Missouri entered into a settlement agreement with the Missouri Board of Architects, Professional Engineers, Professional Land Surveyors and Professional Landscape Architects in settlement of a disciplinary matter. This action resulted from Mr. Tennill's certification of documents prepared by persons not under Mr. Tennill's supervision. Based on a review of that case, it was determined that pursuant to the provisions of KRS 322.180 Section 11, reciprocal disciplinary action by the Kentucky Board of Licensure was warranted. The case was settled by a Consent Decree wherein Mr. Tennill voluntarily surrendered his Kentucky professional engineering license. The Board accepted the Consent Decree on January 13, 2017.

MICHAEL E. BACK, PLS
In October 2014 the Board received a complaint against Mr. Michael E. Back, PLS of Grayson. During the investigation of that complaint it was determined that Mr. Back had failed to maintain a business entity permit for his firm, Back Surveying, Inc., and a review of Mr. Back's recent work product revealed repeated violations of the surveying Standards of Practice. The case was settled through a Consent Decree wherein Mr. Back acknowledged the violations and agreed to the following sanctions (1) a letter of Reprimand, (2) a $1,000 fine, (3) Mr. Back shall obtain the required permit within ten days, and (4) a two-year probation of Mr. Back's land surveying license during which time he will submit to a quarterly review of his work. The Board accepted the Consent Decree on January 13, 2017.

WILLIAM J. BARROWS, PE, PLS
In June 2014 the Board received a complaint against Mr. William J. Barrows, PE, PLS of Hagerhill in Johnson County, regarding surveying services he provided in a boundary dispute near Ivel, in Floyd County. During the investigation of that complaint it was determined that Mr. Barrows had committed numerous violations of the surveying Standards of Practice on his survey of the subject property. An expanded review of Mr. Barrows' recent work revealed a substantial pattern of violations of the Standards of Practice. It was also determined that Mr. Barrows had continued to advertise professional services through the business entity Barrows Engineering, PLLC after the firm's business entity permit had expired. The case was settled through a Consent Decree wherein Mr. Barrows acknowledged the violations and agreed to the following sanctions (1) a letter of Reprimand, (2) a $1,000 fine, (3) a five-year probation of Mr. Barrows' land surveying license during which time he will submit to a quarterly review of his work, (4) Mr. Barrows shall attend a live Standards of Practice course once per year for each year of his probation, and (5) Mr. Barrows agreed to make certain changes to his website advertising and business entity permits. The Board accepted the Consent Decree on January 13, 2017.

LAWRENCE SCOTT AYER, PE
E2M CONSULTING ENGINEERING
On April 20, 2016 the Board of Licensure opened an investigation of Mr. Lawrence Scott Ayer, PE of Cincinnati, after he failed to respond to an audit of his Continuing Professional Development (CPD) credits. The investigation determined that Mr. Ayer failed to respond to the audit within the time frame specified in the CPD regulations, but did provide the documentation after the matter was referred to enforcement. In addition to his failure to timely respond to the CPD audit, it was determined that Mr. Ayer had practiced professional engineering in Kentucky during a period of time in which his license was expired, and that he provided professional engineering services in Kentucky through his firm E2M Consulting Engineering after the firm's business entity permit had expired. The case was settled through a Consent Decree wherein Mr. Ayer acknowledged the violations and agreed to the following sanctions (1) a letter of Reprimand, (2) a $4,000 fine, (3) Mr. Ayer shall file an application for reinstatement of the firm permit for E2M Consulting Engineering within ten days, and (4) Mr. Ayer shall provide documentation of his CPD activities for calendar years 2015 and 2016 within ten days. The Board accepted the Consent Decree on January 13, 2017.
**Wednesday, April 19**
1:00 pm  Four Tracks of Seminars  
1:30 pm  Tour of Wayfair Facility  
6:00 pm  Wednesday Night Event: A Night at the Ballpark  
Cincinnati Reds vs. Baltimore Orioles

**Thursday, April 20**
8:00 am  Five Tracks of Seminars +  
         Tour of the Cincinnati Street Cars  
11:30 am  Lunch with Order of Engineer Ceremony,  
          Awards & Recognition, KSPE Business Meeting,  
          Installation of Officers  
1:30 pm  Five Tracks of Seminars +  Live Drone  
          Demonstration  
5:30 pm  President’s Reception in Covington Ballroom

**Friday, April 15**
8:00 am  STEM Highlight  
10:00 am  Three Tracks of Seminars + Tour of KYTC Basin  
         Off of Upland  
11:45 am  Lunch with Leadership PE Graduation  
          Speaker: Gary Moore, Boone County Judge  
          Executive

The convention is being held at the Cincinnati Marriott at RiverCenter hotel in Covington, Kentucky.

Make your room reservation before March 22, 2017. Our block of rooms will be released to the general public on March 23rd. Hotel reservations are subject to taxes.

**HOTEL INFORMATION**

*Cincinnati Marriott RiverCenter*
10 West RiverCenter Blvd  
Covington, KY  41011  
Phone: (859) 261-2900

Web: See the event page at kyengcenter.org for link.  
Rate: $139.00  
Room Block will be released on March 22, 2017.

**WEDNESDAY NIGHT**

A Night at the Ballpark

A Night at the Ballpark will include a great view of the Cincinnati Reds baseball game from the Smokehouse Party Barn, located at the first baseline near right field. There will be a Ballpark Buffet, water, soda and two drink tickets for you to enjoy!

The ballpark is just across the bridge from where the Convention is being held!

We hope you’ll join us for this exciting evening at the ballpark!

**Location:**
Great American Ball Park  
100 Joe Nuxhall Way  
Cincinnati, OH 45202
82nd Annual KSPE Convention
April 19-21, 2017
REGISTER ONLINE at www.kyengcenter.org

KSPE Chapter: _______________________________________________________________
Name: ________________________________________________________________
(Mr./Mrs./Ms.) (First) (MI) (Last) (Jr./Sr./etc) (EIT,PE/etc)
Company/Firm: ________________________
Street Address: _________________________ P.O. Box: ____________City:_______________ State: ______ Zip Code: ________
Name (s):          Your Preferred Badge Name        Spouse/Guest Badge Name                  Child's Name and Age  Child's Name and Age
Convention Badge: _____________________    _____________________   _____________________   _______________________
Phone: (____) _________________ Fax: (____) __________________ Email: _________________________           Work          Home

Seminars and Tours
Please Select, Seminars, Tours and Events that you plan to attend from the Lists Below and register ONLINE

Wednesday, April 19, 2017
10:00 - 11:30 am Expert Witness
1:00 - 1:50 pm Kentucky's Infrastructure Needs & How to Pay for Them
1:00 - 1:50 pm Best Practices for Managing Construction Documentation
1:00 - 1:50 pm Research and Innovations in Asphalt
1:00 - 5:00 pm KRS 322 Code of Conduct
1:00 - 2:00 pm Wayfair Facility Tour #1
1:50 - 2:40 pm KYTC Professional Services Update
1:50 - 2:40 pm High Performance Computing, Clemson University Data Center
1:50 - 2:40 pm The Personalities of Pipe: What You Need to Know to Get Along
2:00 - 3:00 pm Wayfair Facility Tour #2
3:15 - 4:00 pm University of Kentucky P3 Projects - Housing & Dining Transformation
3:15 - 4:00 pm Performance Based Practical Design
3:15 - 4:00 pm Full Depth Reclamation with Cement
4:00 - 5:00 pm Rationales for Public Private Partnerships
4:00 - 5:00 pm TDOT Utilization of Accelerated Bridge Construction Techniques
4:00 - 5:00 pm Traversing Stormwater Treatment Technologies - Which Do I Choose?

Thursday, April 20, 2017
8:00 - 8:50 am Hydrology Design 3D for KYTC Projects
8:00 - 8:50 am Current KYBOELS Topic
8:00 - 8:50 am Bentley OpenRoads
8:00 - 8:50 am What to Do With My Drone Data
8:00 - 8:50 am City of Radcliff - Happy Valley Flood Mitigation Project
9:00 - 10:00 am Cincinnati Street Car Tour #1
9:20 - 10:10 am Brent Spence Bridge Update
9:20 - 10:10 am Environmental Management Systems
9:20 - 10:10 am "Bridging" the Performance Gap with Polyaspartic Ester
9:20 - 10:10 am Highway to the Danger Drone
9:20 - 10:10 am My Poop Don't Stink
10:00 - 11:00 am Cincinnati Street Car Tour #2
10:45 - 11:30 am KDOE's Hydrology Pilot Program: Enhancing Statewide Hydrology Tools & Flood Hazard Products through the RiskMAP Program
10:45 - 11:30 am Regulation and Permitting for Any Placement “Fill” Materials into Waters of the US
10:00 - 10:45 am Mountain Parkway Expansion: Building Roads, Improving Communities
10:00 - 10:45 am Water Main Rehabilitation Using Trenchless Technology, CIPP Lining
10:00 - 10:45 am Intellectual Property Law Update
10:00 - 11:30 am KYTC Basin Off of Upland Tour
10:40 - 11:30 am Covington Basins and Flooding
10:40 - 11:30 am Let's Go Fly a Drone
10:40 - 11:30 am Challenges Faced During Beargrass Creek Electrical Upgrades Process
10:40 - 11:30 am Two Creeks Collection System Improvements
10:40 - 11:30 am Partnering with the Public: Strategies for Improving the Quality of Public Input and Your Project
10:40 - 11:30 am 2D and 3D Underwater Acoustic Imaging - Applications and Limitations
2:50 - 3:40 pm Louisville MSD MS4 Program Update
4:10 - 5:00 pm QBS for Professional Engineering & Related Services

Thursday, April 20, 2017 (continued)
10:45 - 11:30 am Design & Construction of KY9 Roundabouts-Newport on the Levee
10:45 - 11:30 am Evaluation & Design Considerations of Geocomposite Leachage Collection Layers for Coal Ash Landfills
10:45 - 11:30 am Electrical Resistance Imaging - A Geotechnical Site Evaluation Tool
10:45 - 11:30 am Drones in Construction Industry: Risks and Rewards
10:45 - 11:30 am Covington Basins and Flooding
10:45 - 11:30 am Let's Go Fly a Drone
10:45 - 11:30 am Challenges Faced During Beargrass Creek Electrical Upgrades Process
10:45 - 11:30 am Two Creeks Collection System Improvements
10:45 - 11:30 am Partnering with the Public: Strategies for Improving the Quality of Public Input and Your Project
10:45 - 11:30 am 2D and 3D Underwater Acoustic Imaging - Applications and Limitations
2:50 - 3:40 pm Louisville MSD MS4 Program Update
4:10 - 5:00 pm QBS for Professional Engineering & Related Services

Friday, April 21, 2017
7:30 - 10:00 am Breakfast with the STEM Highlight
10:00 - 10:45 am Mountain Parkway Expansion: Building Roads, Improving Communities
10:00 - 10:45 am Water Main Rehabilitation Using Trenchless Technology, CIPP Lining
10:00 - 10:45 am Intellectual Property Law Update
10:00 - 11:30 am KYTC Basin Off of Upland Tour
10:45 - 11:30 am Olmsted Parks Bridge Rehabilitions
10:45 - 11:30 am KDOE's Hydrology Pilot Program: Enhancing Statewide Hydrology Tools & Flood Hazard Products through the RiskMAP Program
10:45 - 11:30 am Regulation and Permitting for Any Placement “Fill” Materials into Waters of the US

Events AND Guest Tickets

- President's Reception
- Th ursday Night
- Thursday Lunch
- Wednesday Night At the Ballpark

REGISTER ONLINE at www.kyengcenter.org

DEADLINE
March 24, 2017
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 82nd 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

2017 KSPE Annual Convention

WEDNESDAY, April 19, 2017

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<tr>
<td>1:00 - 1:50 pm</td>
<td>Kentucky’s Infrastructure Needs &amp; How to Pay for Them</td>
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<td>Juva Barber, Executive Director, Kentuckians for Better Transportation</td>
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<td>1:50 - 2:40 pm</td>
<td>KYTC Professional Services Update</td>
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<td>Eric Pelfrey, PE, KYTC</td>
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<td>3:15 - 4:00 pm</td>
<td>University of Kentucky P3 Projects - Housing and Dining Transformation</td>
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<td>Penny Cox, Associate VP for Administration, University of Kentucky</td>
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<td>4:00 - 5:00 pm</td>
<td>Rationale for Public Private Partnerships</td>
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<td>Jennifer L. Hara, Director, PPP Services - North America, The Institute for Public Private Partnerships (IP3), A Tetra Tech Company</td>
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<tr>
<td>Evening</td>
<td>Icebreaker - A Night at the Ballpark</td>
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Winter 2017
<table>
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<tr>
<th>Time</th>
<th>Room 1</th>
<th>Room 2</th>
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<th>Room 4</th>
<th>Room 5</th>
<th>Tours</th>
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<tr>
<td>8:00 - 8:50 am</td>
<td><strong>Hydrology Design 3D for KYTC Projects</strong></td>
<td>Current KYBOELS Topic</td>
<td><strong>Bentley Open Roads</strong></td>
<td><strong>What to Do With My Drone Data</strong></td>
<td><strong>City of Radcliff - Happy Valley Flood Mitigation Project</strong></td>
<td><strong>Cincinnati Street Car Tours</strong></td>
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<tr>
<td></td>
<td>Bruce Carlson, Carlson Software</td>
<td>B. David Cox, Executive Director, KYBOELS</td>
<td>Kevin Jackson, Bentley</td>
<td>Ben Shinabery, PLS, Qk4 &amp; Kevin Martin, PE, KYTC</td>
<td>Neal Crawford, PE, Qk4, and Toby Spalding, City of Radcliff Engineer</td>
<td>Two tours consisting of no more than 20 attendees. First tour of 20 starts at 9:00 am; second tour of 20 starts at 10:00 am. Each group of 20 will be split into groups of 10. There will be a tour of Maintenance and Operations Facility at 1927 Race Street in addition to the ride on the street car.</td>
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<tr>
<td>9:20 - 10:10 am</td>
<td><strong>Brent Spence Bridge Update</strong></td>
<td>Environmental Management Systems</td>
<td><strong>“Bridging” the Performance Gap with Polysapartic Esters</strong></td>
<td><strong>Highway to the Danger Drone</strong></td>
<td><strong>My Poop Don’t Stink</strong></td>
<td><strong>Covington Basins and Flooding</strong></td>
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<td>Stacee Hans, KYTC</td>
<td>Steve Gardner, PE, SME-RM, President/CEO ECSI, LLC</td>
<td>Tony Ippoliti, The Sherwin Williams Company</td>
<td>Dan Petro, Security Associate, and David Latimer, Security Analyst, Bishop Fox</td>
<td>Shawn McKay, PE, KLM Sales and Service</td>
<td>Robert Schroeder, SD1</td>
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<tr>
<td>10:40 - 11:30 am</td>
<td><strong>Design and Construction of KY 9 Roundabouts at Newport on the Levee</strong></td>
<td><strong>Evaluation and Design Considerations of Geocomposite Leachage Collection Layers for Coal Ash Landfills</strong></td>
<td><strong>Electrical Resistivity Imaging - A Geotechnical Site Evaluation Tool</strong></td>
<td><strong>Drones in Construction Industry: Risks and Rewards</strong></td>
<td><strong>Two Creeks Collection System Improvements - Construction Inside a Golf Course Community - FSD’s Experience</strong></td>
<td><strong>Let’s Go Fly A Drone</strong> (Demo Flights by FAA Certified Operators) Ben Shinabery, PLS, Qk4 and Kevin Martin, PE, KYTC</td>
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<td></td>
<td>John Eckler, PE, Gresham Smith &amp; Partners &amp; KYTC PM District 6 (TBD)</td>
<td>Steven Mayes, PE, GSE Environmental LLC</td>
<td>Dusty Barrett, PE, American Engineers Inc</td>
<td>C. Michael Busick, CIC, Underwriters Group and John W. Hays, Esq., Jackson Kelly</td>
<td>Dinesh Kumar Palaniswamy, PE, Jacobs and Bill Scafl, PE, Frankfort Sewer Department</td>
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<tr>
<td>11:30a - 1:30 pm</td>
<td>LUNCH: Order of the Engineer, Recognition &amp; Awards, Installation of Officers, KSPE Business Meeting</td>
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<td>1:30 - 2:20 pm</td>
<td><strong>KYTC Project Interaction with Utilities in 2017</strong></td>
<td><strong>Lake Barkley Bridge Karst Conditions</strong></td>
<td><strong>Update on Taylor Creek Culvert Extension</strong></td>
<td><strong>Challenges Faced During Beargrass Creek Electrical Upgrades Project</strong></td>
<td><strong>Two Creeks Collection System Improvements - Construction Inside a Golf Course Community - FSD’s Experience</strong></td>
<td><strong>Let’s Go Fly A Drone</strong> (Demo Flights by FAA Certified Operators) Ben Shinabery, PLS, Qk4 and Kevin Martin, PE, KYTC</td>
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<td></td>
<td>Jennifer McCleve, PE, KYTC</td>
<td>Darrin Beckett, PE, KYTC; Ronald J. Ebelhar, PE, DGE, Terracon; Jeffrey D. Dunlap, PE, Terracon</td>
<td>Carol Callan-Ramler, KYTC; Dave Wormald, AECOM; and Joe Hauber, Thelen/Geotechnology</td>
<td>Josh Dickerson, PE, Louisville MSD; Jeff Phelps, PE and Clay Bostic, PE, Jacobs</td>
<td>Joshua Johnson, PE, Jacobs and Bill Scafl, PE, Frankfort Sewer Department</td>
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<tr>
<td>2:50 - 3:40 pm</td>
<td><strong>The Appalachian Development Highway System: Past, Present, and Possible Future</strong></td>
<td><strong>Partnering With the Public: Strategies for Improving the Quality of Public Input and Your Project</strong></td>
<td><strong>2D and 3D Underwater Acoustic Imaging - Applications and Limitations</strong></td>
<td><strong>Blast Design for the DoD and DoS</strong></td>
<td><strong>Louisville MSD MS4 Program Update</strong></td>
<td><strong>Let’s Go Fly A Drone</strong> (Demo Flights by FAA Certified Operators) Ben Shinabery, PLS, Qk4 and Kevin Martin, PE, KYTC</td>
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<td>Thomas J. Smith, PE, Appalachian Regional Commission</td>
<td>Dr. Ted Grossardt, Vox Populi LLC</td>
<td>Joshua Johnson, PE, Regional Manager and Allen Cantrell, PE, Collins Engineering</td>
<td>David Dickey, PE, Mason and Hanger</td>
<td>Erin Wagener, Louisville MSD MS4 Project Administrator</td>
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<tr>
<td>4:10 - 5:00 pm</td>
<td><strong>Qualifications Based Selection for Professional Engineering and Related Services</strong></td>
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<td>Mark Willis, PE, ACEC-KY/KSPE QBS Committee Chair</td>
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<tr>
<td>Evening</td>
<td><strong>President’s Reception in the Covington Ballroom from 5:30 - 7:00 pm</strong></td>
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<td>All Attendees Welcome</td>
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FRIDAY, April 21, 2017

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<tr>
<th>8:00 - 11:30 am</th>
<th>Registration</th>
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| 7:30 - 10:00 am | Breakfast Buffet Opens  
8:00 - 10:00 am STEM Highlight  
MATHCOUNTS Student Recognition & Awards, PLTW, Future City, and More! |

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<tr>
<th>Technical Sessions</th>
<th>Room 1</th>
<th>Room 2</th>
<th>Room 3</th>
<th>Tours</th>
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| 10:00 - 10:45 am   | Mountain Parkway Expansion: Building Roads, Improving Communities  
Marshall Carrier, PE, KYTC |
|                    | Water Main Rehabilitation Using Trenchless Technology, CIPP Lining  
Cole Mitcham, PE, KAWC |
|                    | Intellectual Property Law Update  
Jim Eaves, Jr., PE and Patent Attorney, Bingham Greenbaum Doll LLP |
|                    | KYTC Basin Off of Upland (SD1) |
| 10:45 - 11:30 am   | Olmsted Parks Bridge Rehabilitation  
Kevin Bailey, PE, KYTC; John Swintosky, PLA, ASLA, Louisville Metro Parks; and, Craig Klusman, PE, AECOM |
|                    | KDO's Hydrology Pilot Program: Enhancing Statewide Hydrology Tools and Flood Hazard Products through the RiskMAP Program  
Carey Johnson, KDO and Davis Murphy, AECOM |
|                    | Regulation and Permitting for Any Placement “Fill” Materials into Waters of the US  
William Worrall, USACE - Nashville |

| 11:45 am - 1:30 pm | LPE Graduation | LUNCH SPEAKER: Gary Moore, Boone County Judge Executive |

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 20th’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.
PROFESSIONAL DEVELOPMENT OPPORTUNITIES

2017 SCHEDULE

February 2017

February 15
Traffic Management Plan Development Training - Rough River State Park, Falls of Rough

February 21 - 24
MicroStation I for Civil Professionals - Kentucky Engineering Center, Frankfort

February 28 - March 2

March 2017

March 2
Traffic Management Plan Development Training - General Butler State Park, Carrollton

March 15
Traffic Management Plan Development Training - KYTC District 8 Multipurpose Room, Somerset

April 2017

April 11
Traffic Management Plan Development Training - KYTC C118, Frankfort

April 19 - 21
2017 KSPE Annual Convention - Cincinnati Marriott at RiverCenter, Covington

Visit http://www.kyengcenter.org to see what other seminars are available!
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Erin is proud to contribute to the protection of public health through safe water through her work in the environmental stormwater field. She is a graduate of the University of Louisville Speed School of Engineering with a Master's Degree in Civil and Environmental Engineering. She has over 15 years of municipal support experience in water resources and stormwater quality programs including regulatory compliance management, policy development, compliance reporting, water quality sampling, green infrastructure design guidance, and educational programs development. Her experience in the public and private sector has afforded unique and diverse work experiences and responsibilities as a manager, supervisor, technical advisor, and mentor. Her current role as Project Administrator at Louisville MSD leads compliance, planning, outreach, monitoring, and regulatory reporting efforts for the MS4 stormwater permit program.

Erin has served on the KSPE Louisville Board of Directors from 2010-2016 and as President in 2014-2015. She has participated in state leadership roles for KSPE including Leadership PE as a program alumni and Professionalism Session moderator, and has supported her local chapter through committee leadership roles since 2006.

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

Erin: Camping, hiking, and playing outside. I have two younger brothers and a twin sister, and have lots of memories of family camping trips and outdoor sports. I was born in Louisville and grew up in Bowling Green, so we spent a lot of time at Barren River Lake, Beargrass Creek, and the Ohio River. My dad had a sailboat that he built in high school – one of my first memories being on the water was in this boat with my dad and my sister.

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

Erin: We moved back to Louisville just before I started high school, and growing up I was competitive in gymnastics. Around that time the Summer Olympics were in Atlanta, and every girl wanted to be Shannon Miller. Thinking back it has helped me tremendously through the years in unexpected ways. That kind of sport is all about perfecting a craft and regularly working through tough circumstances, mostly by yourself. Although you’re on a team, your performance is completely an individual burden. You pick up a lot of self-confidence and reliance and learn how to work hard on the little things in a quiet room with very little fanfare. The work itself is the reward, other people aren’t necessarily going to understand what goes into getting to the final product.

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

Erin: I went to Atherton High School in Louisville. Biology was definitely my favorite subject, next to literature. I had really amazing teachers. The summer of my junior year, my biology teacher took a group of students to Australia. We stayed at a research facility on Kangaroo Island, and learned about tide pools, bees, and native wildlife on the island. I remember swimming in the freezing cold water at the southern tip of the island and thinking about how there was nothing between me and Antarctica. We got to see so much on that trip – the coral reefs, rain forest, Ayres Rock, and Alice Springs school. It was an amazing experience that opened my eyes to the beauty of the natural world and my love of travel.

KY ENG: Why did you choose engineering as your college major?
Erin: When I was really young, my favorite thing was following around my parents. My dad was always working on some project around our house. Some of my enthusiasm for fixing things and making things work must come from my engineer dad. My mom is a nurse, and I remember visiting her at work and being amazed at the tiny babies that she helps nurture and re-unite with their families. I was very interested in the natural world and helping people in need, to make life better for families.

I visited the University of Louisville Speed School during a career day in high school, and was really attracted to their environmental engineering program. I loved applied science, being outdoors, and solving problems, so it was a natural fit. Environmental engineering as a profession is about solving problems and making people’s lives and the world better. Environmental concerns were becoming so prominent in our psyche around the time of my formative years. Everything just sort of came together and the choice was obvious. I worked part time through school and got a scholarship after my first year, which really helped build my confidence to keep going. Once I started my co-op at FMSM Engineers during my sophomore year, I was hooked. I spent most of my first co-op out on a boat collecting water quality samples and other projects out in the field. I loved the combination of the practical, analytical, and physical challenges of my job.

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

Erin: College was a busy time for me. I was in school and working a lot. I started working full time at FMSM after my undergraduate program while I finished graduate school. My biggest passion in graduate school was the Engineers Without Borders group. I wanted to serve people who needed resources, training, direction, and access to safe, clean water. I petitioned my graduate advisor and department chair and developed a self-directed independent study for research in Gales Point, Belize. The community was in desperate need of sanitation and clean drinking water. I met with community leaders and tested water quality samples. There was a lot of preparation for my first trip, but nothing could have truly prepared me for the experience – it changed my life. So much so, that after I graduated, I took two engineering students back to Belize. We worked with the community to repair their water supply system and develop plans for septic systems. Service learning experiences affect everyone uniquely, but can be a very empowering experience. I came home with a much greater appreciation for the social and community services that are available to me, and saw the excitement and energy my two students had in experiencing an engineering project while immersed in a new and different culture and place. I think that by having this work experience in this setting, that we came away with a very real human connection with our work, our profession, and each other.

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

Erin: Almost all of my time and energy outside
of work is spent with my family. My husband Drew and I have been married for ten years and we have two amazing sons, Walter, 5, and George, 10 months. Being a new mother for the second time has made me appreciate a lot of the little things that I was probably too overwhelmed with the first time around. I have learned to cope with the lack of sleep for sure! We love being together as a family and our favorite regular pastime is walking to the park or farmers market on Saturday mornings. It makes you feel like a kid again to revisit all those things that made your own childhood so special. That and my husband is a big kid himself.

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

Erin: Probably that some of my favorite things to do are cooking and gardening. Being away from my family so much for work, there is limited time as a family that we have to share each other’s time, and these are some of our favorite things to do around the house together. We have five backyard chickens and watching them roam is pure entertainment. The added bonus is that they give us fresh eggs for breakfast (or dinner) a couple times a week.

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

Erin: This is definitely the work that I do every day at Louisville MSD. The public service aspect of my career is more fulfilling than I could have imagined while being super challenging and demanding. During a typical day, I could be teaching a course for construction and maintenance professionals, facilitating a rain garden workshop for schools, leading students on a field trip, coordinating riparian restoration efforts, writing grants or technical papers, coordinating with state regulators, overseeing water quality monitoring data or the integrity of compliance reporting, or seeking collaborative partnerships with sister agencies and communities. I love that what I do as an engineer protects public health and improves the quality of life to people in my community every day.

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

Erin: One of my responsibilities is working with our regulatory counterparts at the Kentucky Division of Water to assess local water quality conditions and update the impaired waters list. This year, we were successful in removing un-ionized ammonia for two stream segments from the state’s impaired waters list. This pollutant is extremely harmful to stream health and fish, and collaboration with the Kentucky Division of Water was based on years
of monitoring data and analysis showing that water quality had improved for this parameter and was in fact meeting the water quality criteria. This is a mutually beneficial result for MSD and the state, as it stops the development of additional pollution requirements, or Total Maximum Daily Load, on these stream segments for un-ionized ammonia, and re-directs valuable and limited staffing resources.

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

Erin: I am truly humbled and honored. Over my career, I have held roles of manager, supervisor, mentor, and I think that there is no greater honor than to be recognized like this by my peers and colleagues. There are so many people who have contributed to my success. I think that receiving this award is a reflection of the amazing teachers and mentors that I have had over the years. I would not be who I am or where I am if it were not for these great people. I especially want to thank my colleagues at Louisville MSD who have shared and supported our vision and who work tirelessly to improve our community each day. I am incredibly proud to represent MSD, our state, the engineering community, and fellow female engineers who have given me so much over the years.

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

Erin: The networking, peer support, professional comradery, and engineering service that KSPE offers has been a huge part of my professional career. KSPE has offered to me a way to give back to my community and the engineering community. I love being able to support young engineers and generate interest and excitement for science and engineering in young people. Being involved in teaching the Professionalism Session of Leadership PE over the past ten years has helped me reflect on how important engineering service is in my career. The Leadership PE program is a great way to grow your network outside of your immediate work contacts and learn about yourself, your strengths, and communication skills. I am so thankful to John Beyke, one of my first professional mentors, for bringing me to a local KSPE meeting. The KSPE organization and the Kentucky Engineering Center has played a role in my professional development ever since. Thank you, Jennifer, Marcie, and Russ for all that you do each day!

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

Erin: I think that it’s our personal connection with our peers that makes the organization what it is and keeps it thriving. By staying connected to young members, keeping them engaged, and valuing engineering service, we are supporting the future of our organization. Leadership PE is one of the most valuable programs that KSPE and the Kentucky Engineering Center offer. I am a firm believer that alumni of this program see the value of this course extend far beyond the year of classes – it nurtures valuable skill sets that I have used throughout my career.
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