Competitive markets require manufacturing organizations to be increasingly efficient, innovative and sustainable. Highly skilled manufacturing engineers with advanced technical knowledge and capabilities are essential to the success of these organizations.

The Manufacturing Systems Engineering Master’s Program at the University of Kentucky has been developed to produce manufacturing engineers equipped with the knowledge, skills and attitude required to design, manufacture and manage sustainable products, processes and systems. The Manufacturing Systems Engineering (MFS) Program is a multi-disciplinary program that involves world-renowned faculty specializing in machining, brazing, welding, sustainable manufacturing, lean manufacturing and sustainable supply chains. You will have the opportunity to receive a dynamic education experience delivered by experts in mechanical engineering, electrical engineering, computer engineering, chemical engineering, materials engineering, UK’s Institute for Sustainable Manufacturing and Gatton College of Business & Economics.

Plus, for the first time, the entire master’s degree in manufacturing systems engineering will be available ONLINE.

*For more information and to find out about the application process, visit: [www engr.uky.edu/mfs](http://www.engr.uky.edu/mfs) or email badurdeen@uky.edu.*

**START ADVANCING YOUR CAREER TODAY!**
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Merry Christmas and Happy New Year!

After a hectic last month of family, holidays, and over eating, everyone should be settled in by now and back to work. The cold weather has set in and we’re all dreaming about warmer spring weather. On top of that, KSPE activities are in full swing across the state, from chapter meetings to seminar days to annual convention planning. It’s hard to imagine, but the end of the KSPE year is right around the corner.

Last summer, I mentioned that at the Leadership Conference that kicked off the KSPE year someone asked “Why KSPE?” and that it was a very valid question. I also said that we should be asking and answering that question ourselves on a regular basis. It was brought up again when I was asked to speak to the Capital Chapter at their annual MathCounts Chili Supper, and I thought I’d share what my thoughts were:

Networking
Friendships – Throughout my years of involvement with KSPE I’ve met and interacted with hundreds of people, some very briefly or in passing, some on a regular basis. Some of these people have become my friends and will continue to be regardless of our lines of work, KSPE involvement, etc. We all work enough. Sometimes we just need a little social interaction.

Future employers/employees – I’m lucky in that I’ve had the same employer for 20+ years. Others may be in a completely different situation, and KSPE provides a forum for meeting and interacting with people who you may be contacting someday about a position at their firm or place of business. It’s also a great place to meet folks who may someday reach out to you about coming to work with them.

Potential clients – For those of us in the consulting world, having opportunities to interact with our clients outside of business dealings can prove to be invaluable. You have the opportunity to know them (and for them to know you) on a different level, which will almost always serve to improve your relationship.

Outreach/Mentoring
Giving back – I feel blessed to be in the career and position I’m in and I think that part of our duty is to help others who are coming up behind us. We were all given an opportunity or a break somewhere along the way, a time when someone showed an interest in us, gave us a push, or provided some sort of advice. KSPE gives us the opportunity to do this through multiple avenues, from MathCounts to E-Week to Future Cities and beyond. It’s so important to our organization, that we’ve developed a number of committees to guide and oversee these activities. I hope this is something that continues to grow and helps our organization prosper into the future.

stEm – Yes, I spelled it that way on purpose. Our goal with stem activities is to “put the Engineering back in stem”. As an extension of giving back, we are in the unique position to be able to do that and we need to be involved with the discussions. We are the engineers and need to be the ones leading the Engineering part of that discussion. If we don’t, others will certainly step into the void and we may not like what they have to say.

Sustainability – We started talking about this almost 2 years ago and should continue to on a regular basis. If an organization isn’t looking to the future and how it will sustain itself, it will eventually die. And if KSPE/NSPE isn’t around in the future, what will the profession of Engineering look like? I don’t know the answer to that, but I think we’re better off because of those organizations and need to ensure they continue to exist.

Licensure
The main function of KSPE/NSPE, although probably the least “sexy”, is the protection of your Professional License. Everywhere you look, there are attempts being made to undermine what it means to be a PE, and our organization is at the forefront of this fight. The PE is under attack from everywhere. I’ve heard of recent legislation to license soil scientists, who would be allowed to perform geotechnical engineering tasks, we’re all familiar with the attempts by landscape architects to infringe into site design, and my personal favorite, the sewerage enforcement officer, who would be licensed to…honestly, I was laughing so hard I forgot to read the rest of the article, but you get the idea. Certifications in and of themselves are not a bad thing, but when they start to infringe on what the PE should be in charge of, they become an issue.

In addition, public works departments are clearly in the sights of government administrators who don’t see the
value in PE requirements for these positions, in spite of the fact the PEs are bound by a code of conduct to protect the public health, safety and welfare and have ethical obligations that non-PEs do not. In a similar fashion, the industry exemption allows people to make engineering decisions without being bound by these same standards. I actually heard a story about a well known entity that would only hire non PE for certain positions because they were afraid of the legal ramifications of having a PE in responsible charge.

**What can you do?**

If you’re already a member, participate. An organization is only as strong as the number of folks who actually get involved, whether it’s serving as a chapter officer, volunteering for MathCounts, or playing in the Golf Classic. Encourage your co-workers and staff to get involved. Bring a friend to the next chapter meeting. Get that group of co-ops to sign up as judges for the Science Fair. Invite a client to be a part of a presentation at the Annual Convention. Find something you’re passionate about and jump right in.

At the end of the day, we’re the ones who should control our future. The less we’re involved, the more others will be. We need to make sure we take charge of our professional density!

Under the guidance of chairman Bret Lavey, the newly formed Education Outreach Committee is covering a lot of ground. This committee is an off-shoot of the now defunct Public Relations Committee. Beginning in December 2014, the Committee of about 30 participants has met monthly and information from STEM-related activities has been flying in from across the State.

One of the charges of the Committee is to connect our industry with STEM initiatives statewide – adopting a “putting the ‘E’ back in STEM” approach. A top near-term priority for the Committee is developing an inventory of the many education programs that already exist. This allows us to develop a handle on programs, contacts, and events that are in need of engineering volunteers. The Kentucky Engineering Education Pipeline (KEEP), an idea originating with University of Kentucky’s Dr. Kamyar Mahboub, is picking up steam. In the short-term, we hope to create an inventory of these programs and activities throughout the Commonwealth and used some web-based tools to disseminate the information to our membership. Long-term, we hope to leverage the inventory and our network of contacts to develop tools that can connect engineers with K-12 educational volunteer opportunities.

**Why is KEEP such a good fit for us?** Revisiting KSPE’s mission – to promote the highest standards of engineering education, advocate for the application of engineering to protect public health, safety, and welfare, recruit future engineers, influence public policy, foster public understanding of our role, communicate the importance of licensure, and represent the interests of all engineering disciplines. Nearly all of these elements are supported by plugging our membership into educational activities, informing not only students, but educators, parents, and the public about the role of our profession. What we’re quickly learning is that there is an overwhelming number of opportunities out there; KEEP and our Committee will be soliciting information about what you may be involved in or aware of that allows us to begin to organize ourselves around this mission. Please be thinking of ideas and be on the lookout for additional information and communications as we continue to get our arms around these exciting new opportunities.
Welcome to 2015! As of this writing, the weather is frigid, everyone I know is experiencing withdrawals from the holiday season and the 2015 Kentucky General Assembly has been in session for a couple of days. That could be a recipe for true misery if it were not for all the great mojo we have created with our New Year’s resolutions – right? Hopefully we can all stick to our resolutions, but in the meantime, let me cover a few things that maybe you can add to your list.

NEW KSPE COMMITTEES

With the beginning of the new year, I would like to take a moment and share with you information on a couple of new initiatives within KSPE. Many of you are aware of these efforts, but we want to keep them front and center with you as they are exciting, and very important for our future. President Mike Harris is continuing some of the ground-breaking work that began last year during the term of Angela Akridge. These efforts are ones of evolution - taking the old, tired committees such as Membership and Public Relations and refocusing their efforts into committees that reflect a new demographic. They fit perfectly with the “engineering pipeline” that you have hopefully heard me talk/write about several times.

Elsewhere in this edition of the Kentucky Engineer you will find a short update on the activities of the Education Outreach Committee. The charge of this committee is to help us coordinate our resources – our volunteer’s time, the Kentucky Engineering Center’s capabilities and when possible, financial contributions. In our information gathering phase we have learned that there is an incredible number of STEM activities in the Commonwealth. We are just beginning to scratch the surface of this important initiative and are looking forward to many positive outcomes from this committee.

One of our initial outcomes from this Education Outreach Committee has been the continued development of a closer relationship with Project Lead the Way (PLTW). As you are probably aware, PLTW is a curriculum-based STEM program that emphasizes the skills and knowledge to prepare students for an education in engineering. The KSPE Board at their meeting in December voted to formally endorse the PLTW Industry Certificate that signifies that a student has completed three PLTW engineering courses and successfully completes three end of course assessments.

The Member of the Future Committee was created to coordinate our efforts to interact with the age group that begins at the university level and continuing on with graduate engineers that are newly licensed and “pre-Leadership PE”. We have learned valuable information on how to best guide our efforts to effectively engage with this age group. We are beginning to implement some of those new ideas.

One of the things that we learned early on is that KSPE student chapters probably are not the best way to interact with students enrolled in engineering programs. There is a great deal of competition from other organizations with organized student chapters that are geared toward the technical side of their education. However, we also have learned that students do value networking opportunities with professionals that will soon be their employers. We are working to develop new and more attractive activities that provide these students the networking that they seek. Working with engineering students is important to us in that it is an opportunity to impress upon them the importance of licensure – and that it is not just for civil engineering students. With the change that the Kentucky Board of Licensure for Engineers and Land Surveyors has implemented that allows the taking of the professional engineering examination upon graduation, I believe it is a perfect opportunity for us to impress upon engineering graduates in the other non-civil disciplines that licensure is important to them, their future employers and the public at large. There is not a discipline in engineering that does not have a profound impact on our citizens. Licensure is important!

Another important piece of the Member of the Future Committee is mentoring. Beginning with the Leadership PE class that graduated in May of 2014, we have encouraged new LPE graduates to commit to a mentoring relationship. Ideally this would involve mentoring a recent engineering graduate – someone that may still be a bit overwhelmed with finally working in the industry and could use a helping hand negotiating the ropes of a new career. However, mentoring can take place with anyone, for example a young adult maybe considering engineering or someone currently studying engineering. The important thing in all of this is to develop mentors that will take this and make it a part of
their giving back to the engineering profession throughout their career.

If you are looking for an opportunity (SEE: RESOLUTIONS LIST) to be a part of something dynamic and important to our future, contact Bret Lavey (bret.lavey@stantec.com) for the Education Outreach Committee, or Kyle Guthrie (kyle.guthrie@hdrinc.com) and Joel Morrill (jmorrill@corradino.com) for the Member of the Future Committee and offer your services.

MATHCOUNTS

Every year as the weather is at its worst, MATHCOUNTS planning reaches a feverish pitch. Come February 14, we are hoping to see over 1,000 (we’re not there yet, but we are very close!) sixth, seventh and eighth graders come together early that Saturday morning at thirteen locations across the state to begin the process that culminates in the state competition.

Be sure to come out and volunteer for your chapter competitions on February 14 and the state competition on March 21 at the Ramada Plaza Hotel in Louisville (SEE: RESOLUTIONS LIST).

ANNUAL CONVENTION PLANNING

Your planning committee is hard at work in putting together an incredible lineup for our Annual Convention. Our convention is a great opportunity to earn continuing education hours in addition to providing you with fantastic networking with your peers. We are especially excited about our planned event at the Cincinnati Reds versus Pittsburgh Pirates baseball game. It is an outing that you won’t want to miss.

So mark your calendars (SEE: RESOLUTIONS LIST) and plan to attend the KSPE Annual Convention to be held April 8 – 10 at the Embassy Suites in Covington, Kentucky. We look forward to seeing you there.

ELECTIONS/LEGISLATIVE SESSION

We hope you survived the election season. It was one filled with many twists and turns, but in the end, there was not a great deal of change locally. At the federal level, the win by Senator Mitch McConnell over challenger Alison Lundergan Grimes and the Republican party’s new majority in the Senate has propelled Sen. McConnell to the position of Senate Majority Leader.

The General Assembly had several seats change both in the House and Senate. However in the end, the Senate remains in Republican control and the House in Democratic control. It was in the House that Republicans were optimistic that they could flip the majority, but the Democrats held on to their 54 to 46 majority. Of interest to our members are the changes in leadership in both houses. The changes in the Senate were: Sen. David Givens was elected Senate President Pro Tempore, for the retiring Senator Katie Stine; Sen. Jimmy Higdon was elected Senate Majority Leader over Sen. Brandon Smith; Sen. Ray Jones was elected Senate Minority Floor Leader after the election loss by Sen. R.J. Palmer; and, Sen. Gerald Neal replaced Sen. Johnny Ray Turner as Senate Minority.


For KSPE, one of the main items of interest this session will be the resurrection of a Public-Private Partnership (P3) bill. It is anticipated that the bill will essentially be the same as last session’s HB 407 that made it to the Governor’s desk for signature. You will recall that the Governor vetoed that bill primarily due to some concessions on tolling on a Brent Spence bridge replacement project in Northern Kentucky. It is also anticipated that the offending language will not be in the new P3 bill that is introduced.

YOUNG ENGINEER OF THE YEAR

One of our favorite and most prestigious awards is the Young Engineer of the Year. Those selected for this award join Kentucky’s “Who’s Who” in engineering. We award this annually in a highly competitive selection process. This year’s candidates certainly carried on that tradition and I know the committee had a tough job in selecting one individual. Read elsewhere in this edition of the Kentucky Engineer about your newest Young Engineer of the Year, Joe Hauber from the Northern Kentucky Chapter. Congratulations, Joe!
Board Members
At the January 9, 2015 board meeting, officers were elected as follows for calendar year 2015:

Chair – Sam Williams, PE, PLS
Vice Chair – Ken Sperry, PE
Secretary Treasurer – Bob Fentress, PLS

Chair Williams has appointed the following committee chairs for calendar year 2015:

Engineering Committee – Ken Sperry, PE
Surveying Committee – Jim Riney, PE, PS
Continuing Professional Development Committee – Bob Fentress, PLS

Engineering and Surveying Exams
The results of the October 2014 principles & practice exams are below. The second percentage shown in each line below is the national average.

**Principles & Practice of Engineering**
- First Time Takers 63%; 68%
- Repeaters 34%; 33%
- Total 57%; 56%

**Principles & Practice of Surveying**
- First Time Takers 60%; 71%
- No Repeaters; 45%
- Total 60%; 62%

The results of the calendar year 2014 fundamentals exams administered via Computer Based Testing are below. The second percentage shown in each line below is the national average.

**Fundamentals of Engineering**
- First Time Takers 81%; 76%
- Repeaters 44%; 36%
- Total 73%; 69%

**Fundamentals of Surveying**
- First Time Takers 63%; 52%
- Repeaters 67%; 18%
- Total 64%; 42%

Enforcement Statistics 2014
- Open Cases January 1, 2014 – 72
- Cases Opened - 75 (43 engineering; 28 surveying; 4 both)
- Cases Completed - 72
- Open Cases December 31, 2014 - 75
- Closed with no disciplinary action - 28%
- Admonishments, warnings (not disciplinary actions) - 20%
- Other (fines, probation, etc.) - 37%
- Licenses inactive/retired (Continuing Education issues) - 4%
- Suspensions - 7%
- Revocations - 4%

Calendar of Events 2015
- April 17 PE, STR Vertical, PS Exams
- April 18 STR Horizontal Exam
- April 23 Committee Meetings
- April 24 Board Meeting
- May 14-16 NCEES Southern Zone Meeting
- July 23 Committee Meetings
- July 24 Board Meeting
- August 19-22 NCEES Annual Meeting
- October 8 Committee Meetings
- October 9 Board Meeting
- October 30 PE, STR Vertical, PS Exams
- October 31 STR Horizontal Exam

ENFORCEMENT ACTIONS SUMMARY
For The Period
October 10, 2014 – January 9, 2015

**ERIC RAY MEADE**
In November 2014, the Board received information that in 2007 and again in 2013, Eric Ray Meade, an unlicensed person, solicited and performed land surveying services on property in Mayking, Letcher County, Kentucky. A brief investigation confirmed that in each instance, Meade...
had represented to his client that he was working under the supervision of a licensed land surveyor. In fact, the licensed surveyors were completely unaware of Meade’s activities. Mr. Meade acknowledged that his actions constitute the unlicensed practice of professional land surveying. To resolve this matter, Mr. Meade entered into an Agreed Injunction which bars Mr. Meade 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 January 7, 2015.

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 attend classes on the surveying Standards of Practice and Dendrology or Tree Identification. Mr. Richard failed to attend the classes 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. Richard’s professional land surveying license was suspended. The suspension became effective October 24, 2014. Mr. Richard subsequently attended the classes and on November 17, 2014 the suspension was lifted. Mr. Richard’s license was suspended again on November 24, 2014 because Mr. Richard failed to submit a quarterly projects list. Mr. Richard subsequently submitted the list and the suspension was lifted on December 1, 2014.

LOREN ROBERT PURDOM, PLS
In October 2013, Mr. Loren Robert Purdom, PLS of Wheelersburg, Ohio entered into a Consent Decree in settlement of a disciplinary action against him. Among other things, that agreement called for Mr. Purdom to complete a New Mexico State University online course in professional ethics within six months. Mr. Purdom failed to complete the course as agreed. On May 28, 2014, in accordance with the terms of the Consent Decree and after being notified of the default, Mr. Purdom’s land surveying license was suspended. Under the terms of the agreement, Mr. Purdom had an additional six months to cure the default by completing the course. Six months elapsed and the Board did not receive confirmation that Mr. Purdom had completed the class. Therefore, in accordance with the terms of the Consent Decree and after notifying Mr. Purdom, the board revoked Mr. Purdom’s land surveying license. The revocation became effective December 23, 2014.

RICKY DALE GORTNEY, PLS
In May 2014, Ricky Dale Gortney, a former Transportation Cabinet employee from Elkhorn City, entered into a settlement agreement with the Executive Branch Ethics Commission wherein Mr. Gortney admitted that he committed violations of the Executive Branch Code of Ethics, codified at KRS 11A.020(1)(b)(c),and (d), KRS 11A.020(2), and KRS 11A.040(2). Specifically, Mr. Gortney admitted that while employed by the Transportation Cabinet, he sold a house trailer owned by the Cabinet, to his brother-in-law for $2000, and kept the proceeds of the sale. Upon review, it was determined that Mr. Gortney’s actions constitute violations of KRS 322.180(12) and the Code of Professional Practice and Conduct, 201 KAR 18:142(9). To resolve the matter, the Board accepted the surrender of Mr. Gortney’s professional land surveyor’s license, effective January 9, 2015.

JAMES ARTHUR CARTER, PE
Mr. James Arthur Carter, PE of Mount Washington was disciplined for providing engineering services through the business entity Housing Consultants, Inc. after the firm’s business entity permit had lapsed; and for providing engineering services through the business entity James A. Carter, PE, PSC without a business entity permit. The matter was resolved through a Consent Decree wherein Mr. Carter acknowledged that the acts described above constitute violations of KRS 322.060. Mr. Carter agreed to pay a $1000 fine and to promptly file an application for a business entity permit for James A. Carter, PE, PSC. Additionally, Mr. Carter agreed not to serve as the engineer in responsible charge at any other firm while the permit for James A. Carter, PE, PSC is in force. The Board approved the Consent Decree on January 9, 2015.

ALOYSIUS F. WOLCZYK, PE
Mr. Aloysius F. Wolczyk, PE of Louisville was disciplined for providing engineering services through the business entity WESC, LLC after the firm’s business entity permit had lapsed, in violation of KRS 322.060, and for failing to disclose disciplinary actions taken against him in other states when renewing his Kentucky professional engineering license, in violation of KRS 322.180(1). The matter was resolved through a Consent Decree wherein Mr. Wolczyk acknowledged the violations and agreed to the following sanctions and conditions (1) written Reprimand, (2) $2000 fine, (3) Mr. Wolczyk shall apply for reinstatement of the business entity permit for WESC, LLC, (4) Mr. Wolczyk shall complete a 60pdh online course in Engineering Ethics, and (5) Mr. Wolczyk shall provide documentation of compliance with continuing professional development regulations for calendar years 2010 through 2013. The Board approved the Consent Decree on January 9, 2015.
Professional Directory Advertising
The convention is being held at the Northern Kentucky Convention Center. The hotel we will be utilizing for the event is the Embassy Suites Cincinnati - RiverCenter in Covington. It’s just right across the street from the Convention Center!

Make your room reservation before March 31, 2015. Our block of rooms will be released to the general public on March 31st. Hotel reservations are subject to taxes.

**HOTEL INFORMATION**

Embassy Suites Cincinnati
RiverCenter
10 E Rivercenter Blvd
Covington, KY 41011
Phone: (859) 261-8400

Web: See the event page at kyengcenter.org for link.
Rate: $149.00
Room Block will be released on March 31, 2015.

**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!
KSPE Chapter: ____________________________________________________________

Name: _______________________________________________________________ Company/Firm: ________________________

(Mr./Mrs./Ms.)        (First) (MI)   (Last)               (Jr./Sr./etc)             (EIT,PE/etc)

Street Address:  _________________________ P .O. Box: ____________City:_______________ State: ______ Zip Code: ________

Phone: (____) _________________ Fax: (____) __________________ Email: _________________________           Work          Home

Convention Badge: _____________________    _____________________   _____________________   _______________________

Name (s):                       Your Preferred Badge Name                     Spouse/Guest Badge Name                  Child’s Name and Age  Child’s Name and Age

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<th>Total</th>
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<td>$345.00</td>
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<tr>
<td>Non-Member - Includes all ticketed events</td>
<td>$495.00</td>
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<tr>
<td>Thursday One Day Registration - includes Wednesday Night Ticket and Thursday Lunch</td>
<td>$220.00</td>
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<tr>
<td>Friday One Day Registration - includes Friday Lunch Ticket</td>
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<tr>
<td>Student Registration (Classes Only)</td>
<td>$20.00</td>
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Events AND Guest Tickets

- Golf $60.00
- Order of the Engineer $10.00
- Wednesday Night Event $45.00
- Thursday Lunch $25.00
- Thursday Night President’s Party $35.00
- Friday Lunch $25.00

Seminars and Tours

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

**Wednesday, April 8, 2015**

10:00 - 11:30 am Expert Witness  
1:00 - 1:50 pm Forensic Engineering Failure of Temp Wall Bracing  
1:00 - 1:50 pm Relief Well Assessment and Design, Saving Taxpayer Dollars  
1:00 - 1:50 pm Expediting Utility Relocations  
1:00 - 5:00 pm KRS 32 Code of Conduct  
1:00 - 5:00 pm Roebling Bridge Tour with Rob Hans  
1:50 - 2:40 pm Asphalt Topic  
1:50 - 2:40 pm McNeely Dam Evaluation  
1:50 - 2:40 pm RW Acquisition Process  
3:15 - 4:00 pm Building Resilience  
3:15 - 4:00 pm Louisville MSD MS4 Program  
3:15 - 4:00 pm Mobile LiDAR  
4:00 - 5:00 pm KY-237 SPUI  
4:00 - 5:00 pm Innovative Construction  
4:00 - 5:00 pm UK Underground Detention Project

**Thursday, April 9, 2015**

*Continued*

10:40 - 11:30 am Precision Hydrology in 3D - Rendering Quality Design  
1:30 - 4:30 pm Banklick Wetlands Tour  
1:30 - 2:20 pm Bentley Update  
1:30 - 2:20 pm Client Management from the Government Client’s Perspective  
1:30 - 2:20 pm Expedited Bridge Project Process  
1:30 - 2:20 pm Water Main Replacement Using Cured in Place Pipe (CIPP)  
1:30 - 2:20 pm Building Code Update  
2:50 - 3:40 pm Roundabout Success  
2:50 - 3:40 pm Finance/Retirement  
2:50 - 3:40 pm Material Availability and Design Considerations for Steel Bridges  
2:50 - 3:40 pm Frankfort Consent Decree  
2:50 - 3:40 pm Paperless Construction  
4:10 - 5:00 pm Mt Zion/Richwood Double Diamond & Update on Harrodsburg RD DD  
4:10 - 5:00 pm Kentucky American Water Presentation  
4:10 - 5:00 pm Transportation Planning Using InfraWorks 360 and Civil 3D

**Friday, April 10, 2015**

7:30 - 10:00 am Breakfast with the Board  
9:00 - 11:30 am Fort Thomas GAC Facility Tour  
10:00 - 10:45 am CVG Airport Runway Rebuild  
10:00 - 10:45 am P3 or Kentucky Motor Fuels Tax - Funding the Future of Our Infrastructure  
10:00 - 10:45 am Kentucky Air Quality Permitting - Application Forms  
10:45 - 11:30 am Professional Services Update  
10:45 - 11:30 am PTLW Student Panel  
10:45 - 11:30 am Importance of Licensure  
1:30 - 2:20 pm Elliott County Modeling Update  
1:30 - 2:20 pm Ethics Case Study  
1:30 - 2:20 pm 401/404 Permitting  
2:20 - 3:10 pm Unique Uses for RCP and Pre-Cast Boxes  
2:20 - 3:10 pm Motorsports Park Bowling Green  
2:20 - 3:10 pm SRT System Stabilizes Levee at Power Plant
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 80th 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

2015 KSPE Annual Convention

**WEDNESDAY, April 8, 2015**

<table>
<thead>
<tr>
<th>Morning</th>
<th>Registration</th>
<th>Room 1</th>
<th>Room 2</th>
<th>Room 3</th>
<th>Room 4</th>
<th>Tours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Sessions</td>
<td>Forensic Engineering - Failure to Temp Wall Bracing</td>
<td>Reliance Well Assessment &amp; Design, Saving Taxpayer Dollars</td>
<td>Expediting Utility Relocations</td>
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<tr>
<td>1:00 - 1:50 pm</td>
<td>Tony Huff, PE, FASCE, Tony Huff &amp; Associates</td>
<td>Mary Knopf, PE &amp; Jo Tucker, PE, MASCE, AMEC</td>
<td>Roy Sturgill, Kentucky Transportation Center</td>
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<tr>
<td>1:50 - 2:40 pm</td>
<td>Asphalt</td>
<td>Reliance Dam Evaluation</td>
<td>RW Acquisition Process</td>
<td>10:00 - 11:30 am</td>
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<td></td>
<td>Brian K. Wood, PE, PAIKY</td>
<td>John S. Nealon, PhD, PE, PG, Thelen Associates</td>
<td>Bill Busch SR/WA</td>
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<tr>
<td>3:15 - 4:00 pm</td>
<td>Building Resilience</td>
<td>Louisville MSD</td>
<td>Mobile LiDAR</td>
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<td></td>
<td>Jill Lewis Smith, AIA, Civic Consultants Inc</td>
<td>MS4 Program</td>
<td>Brad Rister, Kentucky Transportation Center</td>
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<tr>
<td>4:00 - 5:00 pm</td>
<td>KY-237 SPUI</td>
<td>Innovative Construction</td>
<td>UK Underground Detention Project</td>
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<td></td>
<td>Carol Callan-Ramler, KYTC D-6</td>
<td>Karen Schaffer and Duncan Gatnlee, PE, URS Corporation</td>
<td>Sandy Collins-Camargo, ADS Pipe &amp; Bell Engineering</td>
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<tr>
<td>Evening</td>
<td>Icebreaker - A Night at the Ballpark - Cincinnati Reds Game from 6:00 pm - 10:00 pm (RSVP Required)</td>
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<tr>
<td>Time</td>
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<tr>
<td>8:00 - 8:50 am</td>
<td>Mountain Parkway Update</td>
<td>Marshall Carrier, PE, KYTC</td>
<td>Design and Construction of Underseepage Pressure Relief Wells</td>
<td>Buried Bridges - A More Practical Solution</td>
<td>Terraced Reforestation</td>
<td>Turkeyfoot Net Zero Middle School</td>
</tr>
<tr>
<td>10:40 - 11:30 am</td>
<td>Cincinnati Street Car Project</td>
<td>John Deatrick, Cincinnati City Manager's Office</td>
<td>Trading Places: 5 Things I Wish I Had Understood as a Consultant</td>
<td>Kentucky Lake Bridge</td>
<td>Banklick Wetlands</td>
<td>Precision Hydrology in 3D - Rendering Quality Design</td>
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<tr>
<td>11:30 - 1:30 pm</td>
<td>Lunch Speaker</td>
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<tr>
<td>1:30 - 2:20 pm</td>
<td>Bentley Update</td>
<td>Kevin Jackson, Bentley</td>
<td>Client Management from the Government Client's Perspective</td>
<td>Expedited Bridge Project Process</td>
<td>Water Main Replacement Using Cured in Place Pipe (CIPP)</td>
<td>Building Code Update (Tentative)</td>
</tr>
<tr>
<td>2:50 - 3:40 pm</td>
<td>Roundabout Success</td>
<td>Joe Plunk, PE, KYTC D-3</td>
<td>Finance/Retirement</td>
<td>Material Availability and Design Considerations for Steel Bridges</td>
<td>Frankfort Consent Decree</td>
<td>Paperless Construction</td>
</tr>
<tr>
<td>4:10 - 5:00 pm</td>
<td>Mt. Zion/Richwood Double Diamond and Update on Harrodsburg Road Double Diamond</td>
<td>Carol Callan-Ramler, KYTC D-6</td>
<td>Intellectual Property Overview</td>
<td>Concrete Beam Prestress Services</td>
<td>Kentucky American Water Company Topic</td>
<td>Transportation Planning Using InfraWorks 360 and Civil 3D</td>
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<td>President's Party at the Northern Kentucky Convention Center</td>
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2015 KSPE Annual Convention

FRIDAY, April 10, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00 - 11:30 am</td>
<td>Registration</td>
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<tr>
<td>7:30 - 10:00 am</td>
<td>7:30 Breakfast Buffet Opens 8:00 - 10:00 am Breakfast with the Board</td>
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<td>Business Meeting - Board of Licensure Forum - Order of the Engineer Ceremony - Awards &amp; Recognition</td>
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Technical Sessions

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<thead>
<tr>
<th>Time</th>
<th>Room 1</th>
<th>Room 2</th>
<th>Room 3</th>
<th>Tour</th>
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<tbody>
<tr>
<td>10:00 - 10:45 am</td>
<td>CVG Airport Runway Rebuild</td>
<td>P3 or Kentucky Motor Fuels Tax - Funding the Future of Our Infrastructure</td>
<td>Kentucky Air Quality Permitting - Application Forms</td>
<td>9:00 - 11:30 am Fort Thomas GAC Facility Tour</td>
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<td></td>
<td>Mike Sherman and Barbara Schempf, Cincinnati/Northern Kentucky Regional Airport</td>
<td>Juva Barber, Kentuckians for Better Transportation</td>
<td>Sreenivas Kesaraaju, EEC</td>
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<tr>
<td>10:45 - 11:30 am</td>
<td>Professional Services Update</td>
<td>PLTW Student Panel</td>
<td>Importance of Licensure</td>
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<td></td>
<td>Eric Pelfrey, PE, KYTC</td>
<td>Various Students, along with Mark Harrell (PLTW-KY/TN)</td>
<td>Sri Kumar</td>
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11:45 am-1:30 pm

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<tr>
<th>Time</th>
<th>Room 1</th>
<th>Room 2</th>
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<tbody>
<tr>
<td>11:45 am - 1:30 pm</td>
<td>LUNCH SPEAKER</td>
<td>Ehtics Case Study</td>
<td>401/404 Permitting</td>
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<td></td>
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<td>Jackson Kelly</td>
<td>Lee Anne Devine, USACE</td>
</tr>
<tr>
<td>1:30 - 2:20 pm</td>
<td>Elliot County Modeling Update</td>
<td>Motorsports Park Bowling Green</td>
<td>SRT System Stabilizes</td>
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<td></td>
<td>Jason Littleton, PE &amp; Kevin Martin, PE, KYTC</td>
<td>Matt Rogers, PE, and Dennis Smith, PE, DDS Engineering</td>
<td>Levee at Power Plant</td>
</tr>
<tr>
<td>2:20 - 3:10 pm</td>
<td>Unique Uses for RCP and Pre-Cast Boxes</td>
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<td>Miriam Smith and Jim Bullard, Geopier</td>
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<tr>
<td></td>
<td>Al Hogan, American Concrete Pipe Association</td>
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<td>Foundation Company Inc</td>
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</tbody>
</table>

KSPE’s Order of the Engineer Ceremony will be conducted during Friday, April 10th’s breakfast program, held at the Northern Kentucky Convention Center 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. Ceremonies are held across the United States at which graduate and registered engineers are invited to accept the Obligation of the Engineer and to wear a stainless steel ring. The Order is not a membership organization; there are never any meetings to attend or dues to pay. Instead, the Order does foster a unity of purpose and the honoring of one’s pledge lifelong.

For additional information, visit www.order-of-the-engineer.org.
Join Us!
2015 KSPE Annual Convention
at the Northern Ky Convention Center
APRIL 8-10, 2015

Mark Your Calendars!
2015 ACEC-KY/FHWA/KYTC Partnering Conference
September 8 - 10, 2015

‘Like’ KSPE
facebook
http://www.facebook.com/KentuckySocietyOfProfessionalEngineers

Follow KSPE on Twitter
http://twitter.com/kyengineers
**2015 SCHEDULE**

**March 2015**
- March 3 - 5
  Highway Capacity Analysis using HCM 2010 and HCS 2010 - Kentucky Engineering Center, Frankfort

**March 2015**
- March 10 - 13
  Applying InRoads (V8i) III - Kentucky Engineering Center, Frankfort

**April 2015**
- April 3
  Applying InRoads I (V8i) - Kentucky Engineering Center, Frankfort

**April 2015**
- April 8 - 10
  2015 KSPE Annual Convention - Northern Kentucky Convention Center, Covington

**May 2015**
- May 12 - 14
  InRoads II - Kentucky Engineering Center, Frankfort

**June 2015**
- June 16 - 19
  MicroStation/InRoads TBD - Kentucky Engineering Center, Frankfort

**July 2015**
- July 14 - 17
  MicroStation I for Civil Professionals - Kentucky Engineering Center, Frankfort

**July 2015**
- July 21 - 23
  Basic Concepts of Open Channel Flow HEC-RAS - Kentucky Engineering Center, Frankfort

**July 2015**
- July 28 - 29
  Advanced Concepts of Open Channel Flow HEC-RAS - Kentucky Engineering Center, Frankfort

**August 2015**
- August 18 - 21
  MicroStation/InRoads TBD - Kentucky Engineering Center, Frankfort

**September 2015**
- September 8 - 10
  2015 ACEC-KY/FHWA/KYTC Partnering Conference - Galt House Hotel, Louisville

**September 2015**
- September 30
  Somerset One Day Fall Seminar - Center for Rural Development, Somerset

**October 2015**
- October 20 - 23
  MicroStation/InRoads TBD - Kentucky Engineering Center, Frankfort

**October 2015**
- October 28
  Prestonsburg One Day Fall Seminar - Jenny Wiley State Park - Goldenrod Room, Prestonsburg

**December 2015**
- December 9
  Lexington One Day Fall Seminar - Clarion Hotel, Lexington

**December 2015**
- December 9
  KRS 322 MTS Code of Conduct & Expert Witness - Clarion Hotel, Lexington

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**More professional development opportunities are available - we just ran out of room!**

Visit http://www.kyengcenter.org to see what other seminars are available!
American Engineers, Inc. (AEI) is pleased to announce the second release of our IOS app which is available on Apple’s App Store. The app was developed for Engineers, Land Surveyors and other professionals who wrestle with keeping up with and maintaining their required Professional Development Hours (PDH’s) or Continuing Education Units (CEU’s). The app, called “CEUM” for Continuing Education Unit Manager, is available for free download. CEUM has been described as the “most useful and up-to-date CEU manager available in the U.S.” AEI is home to over 40 engineers and land surveyors who are licensed in multiple states. The app originated from their discussion on the frustrations of keeping up with multiple, disparate licensure renewals and avoiding license lapses and late-renewal charges. AEI is proud to offer CEUM to their friends, clients, and colleagues and trust it will be of great benefit and a valuable resource. AEI maintains a staff of over 100-employees providing full service Civil Engineering consulting throughout the southeast USA. The firm provides transportation, mining, aviation, planning, structural, utility, geotechnical, and site design, as well as right-of-way acquisition; and subsurface utility engineering, LIDAR, ALTA, and conventional surveying services.
“Existing buildings hold incredible promise.” Encouraging existing buildings to be more sustainable is the goal of the United States Green Building Council’s (USGBC) Leadership in Energy and Environmental Design certification for Existing Buildings (LEED EB). This Certification, which focuses on improving building operations and maintenance, is being sought by Wilmore Elementary School through a volunteer program supported by the USGBC Kentucky Chapter, the Kentucky School Boards Association, the Kentucky School Plant Management Association, the Kentucky National Energy Education Development (NEED) Project, the Kentucky Department of Energy Development and Independence and the Kentucky Community and Technical College System and a grant from the national USGBC.

Wilmore Elementary School is a 67,700 square foot school, constructed in 2000 housing 677 students and 52 staff. The school was selected for this project by a committee comprised of representatives from Kentucky USGBC, Kentucky Department of Education, and independent third parties. The committee reviewed applications from school districts across the Commonwealth for potential candidates for Kentucky’s first LEED EB school.

The LEED EB certification is a point based system with six general categories, each with points that required volunteer resources for the Wilmore project. Categories include Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation in Operations. Within each category are several individual credits that, if attempted and verified, will contribute points to the rating. LEED certification has four levels: Certified, 40-49 points; Silver, 50-59 points; Gold, 60-79 points; and Platinum, 80+ points. There are currently only seven certified LEED EB buildings in Kentucky: one Gold and Six Certified.

The Process
In order to begin organizing the volunteers and the District staff, the first task was benchmarking the existing conditions to determine what credits would be achievable. Based upon the evaluation the volunteer team concluded that out of the five certification levels (Certified, Bronze, Silver, Gold and Platinum) the school should target a LEED EB Silver Certification. Silver Certification requires between 50-59 points.

An ENERGY STAR Target Finder was completed for the school building and it achieved a beginning benchmark score of 71. ENERGY STAR is the Environmental Protection Agency’s program for benchmarking building performance. The formula compares a building’s energy use against its peer group in the same climate zone to arrive at the score.

Fortunately the LEED Energy and Atmosphere category has a lot of opportunity for improvement and was a strong focus for the volunteers.

First, volunteers toured the building identifying overlit areas where artificial light sources could be removed or reduced. A volunteer work session was held at the school to rewire existing linear fluorescent light fixtures to allow for energy reduction. Second, Chris Zerhusen with Zerhusen Holten Commissioning volunteered a retro commissioning of the entire facility including mechanical systems, controls, lighting, and other intelligent and adjustable building features. The report and adjustments will ensure that the building is operating at an optimum level. Third, Jessamine County Energy Manager John Clemons worked closely with the community and the Jessamine County School Board to implement a “dark campus” after hours which greatly reduces the energy consumption when the building is unoccupied. Finally, the HVAC system’s geothermal pumps were found to be operating constantly due to the electronic equipment in the Telecommunications Room. Thermal Equipment Sales donated a mini-split system cooling unit to allow the Telecommunications Room to be cooled while allowing the overall building system to shut down or scale back based on the remaining HVAC load. These key strategies used in conjunction with occupant behavior (turning off lights and devices when not in use) improved the building’s overall ENERGY STAR rating (an increase of 12 points to date), which creates LEED points.
Finally, the project team tested their creativity and ability to go above and beyond the prescriptive requirements to seek Innovation in Operation (IO) credits. IO credits “provide the opportunity to be awarded points for exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in green building categories not specifically addressed by LEED.” These credits can be obtained through education of the LEED process and translating the sustainable features of the building to the student and/or public. An IO credit is also obtained if a LEED AP oversees the documentation of the project and tracks sustainable building cost impacts for the site.

What makes LEED EB different from other LEED certification paths is that the point system is based on the operation and maintenance of the existing facility. Some credits require that performance data be measured and documented for a performance period. The process is tracked and documented over the performance period with the results submitted for verification. The project is currently in this performance tracking phase. The documentation for the Wilmore project will be submitted to the USGBC in 2015.

A Model for Other Schools

The goal for the Wilmore project is two-fold: first, to obtain LEED EB certification for Wilmore Elementary and second, to develop a LEED EB model for other Kentucky schools. This entire process is being thoroughly documented so that other Kentucky schools wishing to pursue LEED EB certification will have a local benchmark for the time and effort involved. Volunteer/staff hours, costs to obtain credits (either by buying new equipment or changing purchasing procedures) and time spent organizing the submitting the documentation are all being tracked.

Volunteers and Partners

The Wilmore Elementary LEED EB project was made possible through a volunteer workforce from the Kentucky USGBC and partner organizations in cooperation with the Jessamine County School Board and Wilmore Elementary staff. Kentucky USGBC, under the leadership of executive director Nancy Church, mobilized member volunteers throughout the project. Bill Sharp is the LEED AP responsible for organizing and facilitating the documentation of the LEED process. Mr. Sharp is a Board Member with Kentucky USGBC and an electrical engineer with CMTA in Lexington, Kentucky. John Clemons, School Energy Manager for Jessamine County Schools and a recently appointed Kentucky USGBC Board Member, is also leading the volunteer effort. Mr. Clemons has organized several volunteer workshops at Wilmore Elementary including improvements to the overall energy consumption and operation of the building to improve the points available for certification. Chris Tyler with Kentucky’s
Green Building Council, Kentucky USGBC, and Thermal Equipment Sales has masterminded and contributed to the project from its inception.

The Kentucky USGBC is one of six partners for the project along with the Kentucky School Boards Association, the Kentucky School Plant Management Association, the Kentucky National Energy Education Development (NEED) Project, the Kentucky Department of Energy Development and Independence, and the Kentucky Community and Technical College System. The volunteers and the time and resources donated to the project will be tracked to provide a benchmark to other schools on the effort it would take to follow Wilmore’s example.

The Wilmore Elementary staff and students also play important roles. The students are not only directly involved in some of the certification data gathering, but will benefit directly from the activities and improvements in the school. Current Wilmore Elementary Principal Dawn Floyd has been a constant supporter of the team’s efforts and the Jessamine County School Board and Superintendent have supported revised sustainable policies throughout the school district as part of the project.

The saying “it takes a village” is certainly applicable to this project. There has only been space in this article to acknowledge the contributions of some of the volunteers, but the project team appreciates the efforts and contributions from all those involved.

Tour the Wilmore Elementary LEED ED Project
Engineers, architects, and other professionals will have a chance to tour the Wilmore project on March 11, 2015 as part of the High Performance Sustainable School Buildings Workshop. The site visit will include presentations by the key partners of the LEED EB project. The event is hosted by the Kentucky Department for Energy Development and Independence and the Kentucky National Energy Education Development (NEED) Project. Attending engineers will receive certificates of professional development. For registration information contact Pam Proctor at pproctor@need.org.

Congratulations to the Crumpton Family on the arrival of their baby boy!

Owen Thomas Crumpton
Born October 21, 2014
Weight 8lb. 1 oz.
GREENE, Theopholus, Jr., 79, died peacefully at his home in Lexington, Kentucky, on December 21, 2014, following a stroke. Theo was a devoted husband and father, a man of keen intellect and wit, who treasured his humble mountain roots while attaining professional success.

Theo was born in Bell County, Kentucky, on May 13, 1935, to Theopholus Greene, Sr. and Vesta Robbins Greene. The times were lean, but he had fond memories of his childhood fishing in the creek and getting into the occasional bit of mischief. He was the valedictorian of his Bell County High School class, and earned a scholarship to study engineering at the University of Kentucky. He graduated from U.K. with a degree in civil engineering in 1958. While in college, Theo went to work for Howard K. Bell Consulting Engineers, and spent his career at the firm as a civil engineer, eventually retiring in 1999 as president. He cherished the wonderful people he worked with at Bell Engineers. He designed and supervised the construction of water and sewerage systems for many cities across Kentucky, including Lexington, and served as president of the Lexington chapter of the Kentucky Society of Professional Engineers. He was also a member of NSPE and ASCE. Theo was a devoted member of Calvary Baptist Church for sixty years, where he taught Sunday School, was a deacon, and served on numerous committees. He and his wife Carol participated in a monthly dinner group with their Calvary friends for several decades. Theo was an accomplished amateur theologian, who believed that independent thought and faith were entirely compatible. Theo’s robust curiosity made him a lifelong student of religion, history, philosophy, and politics, among other fields. He relished a good debate. Theo also had a passion for family research and leaves behind a wealth of genealogical research about his family tree. Outside of work and church, Theo preferred to be at home and with his family. He was a dedicated backyard gardener, and a storyteller extraordinaire. His smile was gratifying, comforting and easily precipitated. He loved taking care of his family.

HOUCK, Gregory “Greg” Eugene, 60, of Louisville, passed away Tuesday, November 11, 2014. He was born in New Albany, IN April 30, 1954.

Greg graduated with a Bachelor of Science Civil Engineering degree from UK, later obtained his MBA and was formerly employed by Jacobi, Toombs, Lanz. He was a professional land surveyor and engineer. He was an avid UK sports and horse racing fan.

Greg was preceded in death by his father, Thomas Pitt Houck, Sr. and brother, Thomas Pitt Houck, Jr.

He is survived by his mother, Margaret Louise Lewis Houck; brother, Brad Houck (Susan); sisters, Mary Kay Houck, Karen Crandlemire (Bruce) and Marcia Chamblin (John); two nieces; four nephews; and eight great-nieces and great-nephews.

His memorial service and visitation have already been held.

SAYING GOODBYE
Theopholus Greene, Jr., PE, PLS

SAYING GOODBYE
Gregory E. Houck, PE, PLS

$2,500 George M. Binder – Past President’s Scholarship

Deadline to apply is March 20, 2015!

You can find the application online at http://www.kyengcenter.org
Design firm Stantec has donated $120,000 to the University of Kentucky (UK)’s Department of Civil Engineering Undergraduate Laboratory Enhancement Campaign. Stantec is the largest contributor to this campaign, which will fund renovations to two teaching labs in the College of Engineering’s Civil Engineering Department.

The contribution builds on Stantec’s unique affiliation with the University of Kentucky. Stantec employees have earned more than 130 degrees from the institution, 80 of them from UK’s College of Engineering.

Richard Sutherland, senior principal with Stantec, said, “When UK’s Civil Engineering Department invited two Stantec employees to participate in an industry-wide drive to raise money to upgrade teaching laboratories, our Kentucky staff, along with regional and corporate leadership, stepped up to become the leading contributors to the campaign. We’re excited to support this great institution that has provided us with so many talented young professionals.”

Once the renovations are complete, Stantec will receive naming rights to two teaching labs. The UK fundraising effort underscores the firm’s commitment to helping local community organizations, and in particular, supporting STEM (science, technology, engineering and math) education.

Stantec’s Kentucky offices employ a staff of nearly 300 professionals providing services in the firm’s geotechnical, environmental, water and wastewater engineering, and transportation business lines.
Joseph D. Hauber, PE, is a graduate of the University of Cincinnati, with both a Bachelor of Science degree in Civil Engineering and a Master of Science Degree in Geotechnical Engineering. Joe graduated Summa Cum Laude for his bachelor's degree and graduated with a GPA of 4.0 for his master's degree. Joe is the current president for the Northern Kentucky Chapter of the Kentucky Society of Professional Engineers and has held all leadership positions prior to his presidency at the chapter level. Joe has also been involved with the Northern Kentucky MATHCOUNTS competition as a volunteer since 2011. Outside of KSPE, Joe is also an associate member of the American Society of Civil Engineers (ASCE), a member of the Cincinnati Section of ASCE, a member and past chairperson of the Cincinnati Geotechnical Group of the ASCE Cincinnati Section, a member of the Geo-Institute and a member of the Society of American Military Engineers.

Joe has been employed by Thelen Associates, Inc. since August 2007. As far as his career achievements, Joe says, “My recent and current career positions have provided me with the opportunity to maintain my technical design skill and to develop my communication skills with clients and interdisciplinary design teams.”

Over the past few years, Joe has had the opportunity to work on several green infrastructure projects, including the following Sanitation District No. 1 projects: I-75/71 Terraced Reforestation Project, the Regional Bioretention Facility Project, and the Regional Banklick Creek Wetlands Project. Each of these projects required working with multi-disciplinary teams, requiring communication and creativity to design and construct these innovative green facilities. In 2014, the Terraced Reforestation Project received a Kentucky ACEC Grand Award for Engineering Excellence, as well as a National ACEC Honor Award for Engineering Excellence.

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

JH: Playing outdoors with my younger brother, whether it was soccer in the front yard; street hockey or basketball in the cul-de-sac in front of our house; our game of “wallball” with a Nerf® soccer ball against the side of the house, porch, and occasional window (which I helped my dad repair at least once); or playing in the woods and creek behind our house (which is what I do pretty frequently now as a geotechnical engineer, if I am out in the field).

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

JH: I played soccer for four years at Covington Catholic High School. Go Colonels! My position was goalkeeper. During my senior year, I was co-captain with the other senior goalie; however, at tournament time, the other senior goalie got the nod for starting. It was still great to be a part of the team, though, as we made it to the state semifinals where we lost to St. X who was the eventual state champion.

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

JH: The stereotypical engineer’s answer: math and science classes; however, calculus was probably my overall favorite (except for the part on series and sums). With calculus, I was so interested in how differentiation and integration related equations that I had to memorize in geometry class, my freshman-year physical science class, and my senior-year AP physics class –I guess that is the engi-nerd in me.

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

JH: The stereotypical engineer’s answer: math and science classes; however, calculus was probably my overall favorite (except for the part on series and sums). With calculus, I was so interested in how differentiation and integration related equations that I had to memorize in geometry class, my freshman-year physical science class, and my senior-year AP physics class –I guess that is the engi-nerd in me.

KY ENG: Why did you choose engineering as your college major?
JH: Again the stereotypical engineer’s answer: I liked math and science. I also have always liked building things and trying to figure out how things work. As a kid, I loved playing with Legos, Lincoln Logs, train sets, etc. If I came across some toy or gadget, I would test every button/feature to figure out what it could do to the extent that my parents would scold me saying “Stop it or you’ll break that thing.” If I did break something, I would try to take it apart and put it back together in an attempt to fix whatever was broken (and hide what I had done), and on occasion I was successful in repairing what I broke. I also enjoyed helping my dad around the house whether it was replacing the old casement windows, running new electric circuits, replacing faucets, etc. Since I was so interested in how things worked, I sometimes got in the way more than I helped trying to see what was going on. I recall one time in grade school that I was helping my dad on the typical plumbing project that required numerous trips to the local hardware store, and I got in the way of his light for working so he frustratingly shouted “Get out of my light.” I thought he said “Get out of my life” so I stormed out of the room, which snowballed into a shouting argument until we calmed down and figured out the misunderstanding. We still joke about that to this day.

As far as selecting the discipline of civil engineering, I was looking into civil, electrical, and mechanical engineering as a senior at Cov Cath, and met with a few college professors to determine what was unique about each discipline. From those discussions, I felt that civil engineering would have a greater balance of fieldwork with office work, which is why I chose civil engineering over the other two.

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

JH: For my first three years of college, I played indoor soccer with my younger brother and some high school buddies. However, one Sunday night during my first co-op quarter in 2003, I broke my leg at one of the games so I gave up organized soccer until 2012 when I played a short-lived, 6-game stint that ended with me tearing my ACL. At that point, my lovely, then-pregnant wife, Anna, informed me that I was not allowed to play soccer again. During college, I also frequently volunteered for the University of Cincinnati Chapter of Habitat for Humanity, and occasionally took on the handyman role for my future in-laws – from installing or repairing garbage disposals to installing drains in window wells.

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

JH: If you couldn’t tell from my previous responses, I love soccer. In fact, I organized a pool this past year for the 2014 World Cup with brackets from 28 different people from my office and other engineers with whom I work. I also loved watching my daughter, Maria, playing soccer this year (if you can call what 3- and 4-year olds do playing soccer). I enjoy watching Cincinnati Bengals and Reds games. However, my number one interest is my family: my wonderful wife of 8 years and high school sweetheart, Anna, my 4-year old daughter, Maria, and my 18-month old son Nicholas, who for better or worse for him appears to be my younger twin of 30 years. The greatest part of my day is coming home to see my family and have Maria and Nicholas shout “Daddy’s home” and “Dah-eee.”

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

JH: I’m a big Billy Joel fan. I got my first cassette tape of Billy Joel in third grade (I guess I’m dating myself now, but at least it wasn’t an 8-track), and have collected his Greatest Hits and Essential Collections ever since. One of my fondest memories is singing “Piano Man” in a big circle with all of the family and friends at my wedding.

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

JH: I would have to say being selected as this year’s Young Engineer of the Year. It was an honor to be selected by my fellow board members of the Northern Kentucky Chapter as a nominee for Kentucky’s Young Engineer of the Year and represent our Chapter, and a further honor to be selected by KSPE for representing our State at the national level.

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

**JH:** In my relatively short tenure at Thelen, I’ve have gotten to work on a large variety of projects that I am proud of; however, one of them stands out above the rest – the Terraced Reforestation Project along the east side of I-75 in the cut-in-the-hill in Covington. The goal of this project was to reduce combined sewer overflows within the Covington basin by constructing several bioretention troughs that were planted with trees along relatively steep terrain. The project required coordination with a multi-disciplinary design team of civil engineers, landscape architects, and geotechnical engineers. Additionally, during construction, a more rigorous construction monitoring protocol was determined to be required due to the sensitivity of the amended soil mix for the bioretention troughs to variations in the mix composition and to siltation from on-site soils, which was problematic as construction was occurring during one of the wettest summers on record. Since Thelen was also providing the construction review services for this project, I was heavily involved with the construction review and testing of the amended soil mix. As a result of this project, I worked with the contractor to develop a modified infiltration test for testing the amended soil mix in the contractor’s supply yard before hauling this material onto the site.

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

**JH:** As I previously stated, it is a great honor (although, my wife was probably an order of magnitude more excited than I when I told her the news). Additionally, being selected by fellow engineers who know the ins and outs of our profession and being considered in the ranks with all of the previous Young Engineers of the Year make this honor all the more special. With all this being said, I want to express my thanks to several people: my wife, Anna, for her love and support, particularly when she was at home taking care of the kids and putting them to bed while I had to put in the extra hours for those certain projects; to my parents for their faith, work ethic, and values that they instilled in me; and also to my colleagues at Thelen who taught and guided me over the past several years. Without them, I would not have achieved what I have as a person and an engineer.

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

**JH:** Three things come to mind...First, the offering of frequent, affordable continuing education opportunities not only supports our licensure requirements, but reinforces the underlying reasons for those requirements, i.e., as engineers, we must continually enhance our knowledge to be competent in our fields of service in order to “hold paramount the safety, health, and welfare of the public.” Second, KSPE provides information on how legislation is and/or will impact our profession and livelihood as an engineer; without this information, I would be far less aware of these influences of legislation on my career. Finally, it’s important to me how KSPE gives back to the community, whether it be through scholarships to students in engineering programs or volunteering at the MATHCOUNTS competition, to name a couple.

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

**JH:** In 6th, 7th, and 8th grades, I participated in MATHCOUNTS; however, it wasn’t until I joined KSPE that I realized KSPE supported MATHCOUNTS (which may have been partially attributed to my obliviousness as a preteen/teen). It may be beneficial to encourage KSPE involvement on the coaching level of MATHCOUNTS and not simply at the competition, so that the students participating in MATHCOUNTS better see the connection with engineering. Additionally, with the relatively recent Project Lead the Way curricula that are being used in some middle and high schools throughout the state, these are other potential avenues for KSPE involvement, so that when these students enter into college, a student chapter of KSPE is more recognizable and likely to endure and grow.

Overall, I believe the best way to attract younger members is for the current members of KSPE to encourage young engineers with their firms to join a professional society like KSPE and convey their personal beliefs as to the importance and benefits of being a member of such a society.
Save the Date
Mammoth Cave Chapter KSPE Golf Outing

Date - Friday, April 24th, 2015
Where - Crosswinds Golf Course, Bowling Green

Time:
9 am CST Shotgun
8 am CST Sign-In

Early Registration:
$55 per person or
$200 per team

Late Registration:
$70 per person or
$260 per team

Hole Sponsor:
$150 per hole

Lunch and Prizes Provided After Round

PRIZES
1st, 4th, and 7th Place Teams*
Longest Drive * Closest to the Pin * Door Prizes *

RULES AND FORMAT
4 Player Scramble, Bring Your Own Team or Sign Up to Be Assigned to a Team, Golf Course Rules Apply, One Mulligan and One Skirt Available Per Player or Max of 4 Per Team ($5 Each Available at Registration)

Registration Form Can Be Found on Our Website at www.kspemammothcave.org
Please Email Registration Form to matt.rogers@ddsengineering.com
Or Mail To Matt Rogers, 148 Chester Court, Bowling Green, KY 42103