Who Says Engineers Aren’t Social?

Photographed here are Kimberly Ward Anderson and Anastasia Kruse

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KSPE President Eddie Mesta is wishing you a happy new year and asking you to consider making some “professional” new year’s resolutions!

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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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Learn more about the KSPE Annual Convention coming up April 10-12, 2013 at the Galt House Hotel in Louisville, Kentucky. Seminars, tours, events, networking and more!

Block Kids: Building in 2012...............17

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2013 KSPE Young Engineer of the Year: R. Darin Hensley, PE, LSIT..........21
Walk with Darin as he shares his story, recounting experiences, thanking those who have helped him along the way to become the 2013 KSPE Young Engineer of the Year.

NCEES seeks civil engineers for online survey
NCEES is currently seeking licensed civil engineers to participate in a professional activities and knowledge study, or PAKS, for the PE Civil exam. The results of this study will be used to update specifications for the exam, which is used throughout the United States for licensing purposes.

NCEES requires a cross section of licensed professional engineers practicing civil engineering—including those working in consulting, the public sector, and academia—to complete an online survey about the tasks and knowledge required of a licensed civil engineer with 4 to 6 years of experience to protect the health, safety, and welfare of the public. The survey can be completed in about an hour.

For access to the online survey, visit http://ncees.org/civilsurvey. Responses must be received by February 25, 2013.
Happy New Year!
I write this message to you during the holiday season between Christmas and New Year’s Day. The holidays are certainly a time of reflection on the previous year as well as looking forward to the hope in the anticipation and preparation of a new year. I certainly hope that your holiday season was safe and full of joy as we close the book on 2012 and turn to 2013.

Since my last article to you I have had the wonderful opportunity to visit with many of you across the state to further discuss the KSPE Plus 3 initiative. In November I was the guest speaker at both the Mammoth Cave Chapter meeting in Bowling Green and the My Old Kentucky Home Chapter meeting in Elizabethtown. I really appreciate the great turnout that attended each of these meetings. I was encouraged to witness the good things that these chapters are doing to enhance the Outreach and Involvement of KSPE. When I visited the Mammoth Cave Chapter plans were being made for their annual Christmas Gift Drive for Potter’s Children’s Home in Bowling Green. The My Old Kentucky Home Chapter was making plans for their annual membership dinner in January. These are two wonderful examples of KSPE’s chapter level Outreach and Membership opportunities for our members. I am looking forward to speaking to the Louisville and Northern Kentucky Chapters in early 2013!

I also was the lunch speaker at several Professional Development Seminars over the last couple of months. In November I spoke at the Mechanical / Electrical Focused seminar in Lexington. In December I spoke at the Sewer Collection System Rehabilitation and Maintenance seminar in Louisville and both the Communications and MTS Code of Conduct / Expert Witness seminars in Lexington. All of these seminars were well attended and the agendas were full of interesting and relevant topics to enhance professional development. Be sure to check out the Kentucky Engineering Center website for future professional development opportunities in 2013!

In December I attended the Leadership PE Alumni Session in Lexington. Approximately 60 current and past Leadership PE participants attended this event which was held at the Grand Reserve in the heart of Lexington’s Historic Distillery District. The day included a tour of the Town Branch Distillery as well as a visit from Lexington Mayor Jim Gray who gave an overview of Lexington’s downtown revitalization initiatives. It was a great day to catch up with fellow Leadership PE alums and meet the current Class of Leadership PE. It is so great to see the sustainability and strength of the Leadership PE program. I would strongly encourage anybody interested in this program to consider applying for the 16th Class of Leadership PE this coming June.

A New Year’s Resolution …
As you know this is the time of year for New Year’s Resolutions to be made. Whether it’s to shed a few unwanted pounds or getting more organized it’s a great time of year to set goals and initiatives for the coming year. In the spirit of the holiday season and the Twelve Days of Christmas, I offer you twelve KSPE initiatives for consideration as part of your New Year’s Resolutions:

1. Attend the KSPE Annual Meeting April 10th – 12th in Louisville – As you will see in this edition of the Kentucky Engineer Magazine, this year’s KSPE Annual Meeting promises to be another great professional development and networking opportunity for our membership. I certainly hope you make plans to join me in Louisville as I hand the gavel to Angela Akridge, who will be your 2013 – 2014 KSPE President.

2. Participate in the Chapter and State Mathcounts competitions coming up in February and March – What better way to provide outreach to our middle school students than participate in these two events. The Chapter Mathcounts competitions will be held across the state on February 16th with the State competition being held March 23rd and 24th at the Clarion Hotel North in Lexington.

3. Regularly Attend KSPE Chapter Meetings – It’s no secret that the foundation of our KSPE membership takes place at the chapter level. Your active participation at the chapter level is crucial to the overall success of KSPE.

4. Invite a Fellow Engineer to Attend an upcoming KSPE Chapter Meeting – There is no better way to introduce an engineer to KSPE than to extend a personal invitation to an upcoming chapter meeting. Make sure that you tell him or her about the new 2 tier KSPE / Chapter (State Only) Membership option that provides members all of the opportunities and programs that

FROM THE PRESIDENT’S DESK
BY EDDIE MESTA, PE
KSPE PRESIDENT - 2012/2013

THE PRESIDENT’S
KSPE has to offer at nearly a 50% discount from the traditional 3 tier NSPE / KSPE / Chapter membership.

5. **Participate in Leadership PE** – Whether you want to be selected as part of the 16th class of Leadership PE or you are an alum of a previous class, your involvement is important to the continued success of this program.

6. **Establish or Continue a Relationship with your Legislator** – Give your State Representative and Senator a call and establish or continue a relationship with him or her. Our elected officials need to get to know Professional Engineers more so they can be educated on the importance of our profession to the infrastructure of our society.

7. **Get Involved in a KSPE Committee** – What better way to enhance your membership than participating in the countless committee opportunities that KSPE has to offer. Whether it is Legislative, Professional Development, Mathcounts, Leadership PE, or even the Golf Classic you can make a difference in the sustenance of these great programs. Be sure to check out the Kentucky Engineering Center website for a listing of all of the committee involvement opportunities.

8. **Mentor a Student** – Whether it is speaking to a middle school math class or having a student shadow you at work; you would be giving a middle or high school student early exposure to our profession. It is also equally important to reach out to our college engineering students to give them the needed support and exposure to our profession.

9. **Assist in Project Lead The Way** – Project Lead The Way (PLTW) is another outstanding program that is in need of more participation from KSPE members. PLTW is the leading provider of rigorous and innovative Science, Technology, Engineering, and Mathematics education programs used in middle and high schools. Over 350,000 students in all 50 states participate in this program.

10. **Participate in Engineers Week** – Engineers Week is coming up February 17 – 23. Be looking for the numerous opportunities at area universities to enhance the exposure of our profession to elementary, middle, and high school students.

11. **Participate in the Kentucky Engineers Golf Classic** – Go ahead and mark your calendars for September 25th to attend the next Kentucky Engineers Golf Classic at the University Club of Kentucky. This is largest fund raising activity for the Kentucky Engineering Foundation, which supports the educational programs sponsored by engineers in the Commonwealth.

12. **Get Your Professional Development Hours** – As you know by now it is required that professional engineers complete a minimum of 30 Professional Development Hours (PDHs) over two calendar years. The Kentucky Engineering Center has numerous continuing professional development opportunities throughout the year that are provided to KSPE members for a discounted rate so be sure to take advantage of them.

You will note that many of these twelve opportunities are reflected in the KSPE Plus 3 initiative that I have launched during my presidency. I hope that you consider these opportunities that KSPE has to offer throughout the upcoming year and I sincerely wish you a prosperous 2013!
Governor Beshear appointed Kenneth R. Sperry, PE, to a four year term expiring January 1, 2017. Mr. Sperry replaces Randall R. Russell, PE, whose term had expired. Mr. Russell was not eligible for reappointment because he had served two consecutive four year terms. We welcome Mr. Sperry to the board and thank Randall for his many years of service to the engineering and surveying professions.

Governor Beshear also reappointed Beverly Smith as our public member to a four year term expiring January 1, 2017. We are pleased to have Beverly continue on our board.

At the January 11, 2013 board meeting, officers were elected as follows for calendar year 2013:

Chair – David Atwell, PE, PLS
Vice Chair – David Sigler, PE
Secretary Treasurer – Sam Williams, PE, PLS

Chair Atwell has appointed the following committee chairs for calendar year 2013:

Engineering Committee – David Sigler, PE
Surveying Committee – Sam Williams, PE
Continuing Professional Development Committee – Richard Howerton, PLS

ENFORCEMENT ACTIONS SUMMARY
For The Period
October 6, 2012 – January 11, 2013

SCOTTY JOHNSON, LSIT
In February 2012, the Board of Licensure received several complaints alleging that Scotty Johnson, LSIT was operating J&J Land Surveys, Inc. without a valid business entity permit and without a licensed land surveyor in responsible charge. An investigation confirmed the allegations. The matter was subsequently resolved through an Agreed Injunction wherein Mr. Johnson is enjoined from further practice of professional land surveying, either individually or through a business entity, unless and until he becomes licensed by the Board. No penalty was assessed for the current violations; however the Agreed Injunction calls for a fine of $1000 and ten (10) days in jail for any future violation. The Agreed Injunction was entered in the Franklin Circuit Court on November 20, 2012.

RICHARD HIATT, PE
Pursuant to 201 KAR 18:196, Mr. Richard Hiatt, PE, of Cincinnati, Ohio was subject to an automatic audit of his Continuing Professional Development credits due to late renewal of his professional engineering license. The matter was referred to the Board’s enforcement staff after Mr. Hiatt failed to respond to numerous audit notices. After numerous unsuccessful attempts by the enforcement staff to contact Mr. Hiatt, the Board filed formal
disciplinary charges in accordance with KRS 322 and KRS 13B, charging him with violating 201 KAR 18:196 Section 9 (3). Mr. Hiatt did not answer the charges and did not participate in the disciplinary hearing process. Upon recommendation of the hearing officer, the Board issued a Final Order revoking Mr. Hiatt's professional engineering license effective January 11, 2013.

KAPUR & ASSOCIATES, Inc.
Kapur & Associates, Inc. of Milwaukee, Wisconsin was disciplined for offering engineering services in Kentucky without a business entity permit, in violation of KRS 322.060. The case was settled by a Consent Decree wherein the firm acknowledged the violation and agreed to pay a $1000 fine and file for a business entity permit. The Board accepted the Consent Decree on January 11, 2013.

JAYME MALONE, PLS
In June 2011 the Board of Licensure learned that Mr. Jayme Malone, PLS of Lincoln, Nebraska had surrendered his Oklahoma professional land surveying license in settlement of a disciplinary action. An investigation determined that the circumstances of the Oklahoma action were sufficient to warrant reciprocal disciplinary action in the state of Kentucky pursuant to KRS 322.180 Section 11. Additionally, the investigation determined that Mr. Malone had failed to disclose the Oklahoma action when he renewed his Kentucky license. The case was settled by a Consent Decree wherein Mr. Malone acknowledged the violations, and agreed to the following sanctions: (1) Suspension of his surveying license for 90 days, (2) an administrative fine of $2000, (3) must complete a college level course in professional ethics, (4) Probation of his surveying license with quarterly review of his surveying projects for two years following completion of the period of suspension. The Board accepted the Consent Decree on January 11, 2013.

DOYLE HARDIN, PLS
In July 2011, in settlement of a disciplinary action against him, Mr. Doyle Hardin agreed to probation of his land surveying license for a period of two years, with quarterly review of his land surveying projects by an independent reviewer. Quarterly reviews of Mr. Hardin's work revealed numerous violations of the surveying Standards of Practice, 201 KAR 18:150. Despite numerous requests by the Board, Mr. Hardin failed to make adequate adjustments to his practice and continued to commit many of the same Standards of Practice violations. Based on the reviews, it was determined that additional disciplinary action was warranted. The matter was settled by a Consent Decree wherein Mr. Hardin acknowledged the violations, and agreed to the following sanctions: (1) Suspension of his surveying license for six months, (2) an administrative fine of $2000, (3) must retake and pass the 2-hour Kentucky state specific surveying exam, (4) must complete a college level course in professional ethics, (5) must attend Standards of Practice seminars semi-annually through the end of the probation period, (6) Probation of his surveying license with quarterly review of his surveying projects for two years following completion of the period of suspension. The Board accepted the Consent Decree on January 11, 2013.

Enforcement Statistics 2012
Open Cases as of January 1, 2012 96
*Cases Opened 100
**Cases Completed 113
Open Cases as of December 31, 2012 83
*69 engineering 31 surveying
**Closed with no disciplinary action 35%
Admonishments, warnings 25%
Other (fines, probation, etc.) 18%
Licenses inactive/retired (CPD issues) 17%
Suspensions 3%
Revocations 2%
KSPE State Officers

President
Eddie Mesta, PE
President Elect
Angela Akridge, PE
Treasurer
Michael Harris, PE
Secretary
Lee Czor, PE
Past President
Peter Overmohle, PE
National Delegate
Charles Anderson, PE
Bluegrass Region Vice President
William Bowie, PE, PLS
Central Region Vice President
M. Chad LaRue, PE
Eastern Region Vice President
Mark David Sanders, PE
Louisville Region Vice President
Kelly Meyer, PE, PLS
Western Region Vice President
Clint Harbison, PE

Chapter Presidents
Ashland - Michael Enders, PE
Big Sandy - Jody Hunt, PE
Bluegrass - Stephanie Blain, PE
Capital - Brad Eldridge, PE
Cumberland Falls - None
Green River - David Topolenski, PE
Kentucky Lake - None
Kentucky River - Chuck Mullins, PE
Louisville - Kristen Crampton, PE
Mammoth Cave - Joe Plunk, PE
My Old Kentucky Home - Henry Greenwell, PE, PLS
Northern Kentucky - Mike Willenbrink, PE
Pine Mountain - Michael Jones, PE

State Directors
Ashland - Richard Howerton, PE, PLS
Big Sandy - Philip Elswick, PE
Bluegrass - Darin Hensley, PE
Capital - Jason Littleton, PE
Cumberland Falls - Robert Zik, PE, PLS
Green River - Tony Huff, PE
Kentucky Lake - Bill Marcum, PE
Kentucky River - Danny Maggard, PE, PLS
Louisville - Wes Sydnor, PE
Mammoth Cave - Richard Tutt, PE
My Old Kentucky Home - Robert Bush, PE
Northern Kentucky - Michelle Bollman, PE
Pine Mountain - Michael Jones, PE

Kentucky Engineering Center
STAFF
George Binder, Executive Director
Marcie Fisher, Deputy Director
Nancy Parker, Administrative Assistant
Jennifer Gatewood, IT Coordinator

Kentucky Society of Professional Engineers
160 Democrat Drive | Frankfort, KY 40601
Phone 502.695.5680 Toll Free 800.455.5573
Fax: 502.695.0738
Email: kspe@kyengcenter.org

February 2013
February 5
Bridges One Day Seminar - Clarion Hotel North
February 7-8
ACEC-KY Annual Retreat - Bardstown, Kentucky
February 19 - 22
Microstation I for Civil Professionals - Kentucky Engineering Center

March 2013
March 5-7
Highway Capacity Analysis Using HCM 2010 and HCS 2010 - Kentucky Engineering Center

April 2013
April 2 - 5
Microstation/InRoads TBD - Kentucky Engineering Center
April 10 - 12
78th Annual KSPE Convention - Galt House Hotel & Suites
April 30 - May 3
Microstation/InRoads TBD - Kentucky Engineering Center

June 2013
June 6
Spring Dendrology & Native Tree Identification - Bernheim Arboretum & Research Forest
June 11 - 14
Microstation/InRoads TBD - Kentucky Engineering Center

July 2013
July 9 - 12
Microstation/InRoads TBD - Kentucky Engineering Center

Opportunities for PE and FE Review Courses

Online Review Course available through the Minnesota Society of Professional Engineers. Review courses begin February 11th for the Civil PE, Electrical Power PE, Mechanical PE and Fundamentals of Engineering exams. Visit our website for links to details and to register: http://www.kyengcenter.org

Indiana Continuing Professional Development

CPD Sessions offered by KSPE/ACEC-KY should also meet the CPD requirements for Professional Engineers in Indiana. The Indiana law/regulations state:
“approved organization” refers to the following:
(7) A national organization of practitioners whose members practicing in Indiana are subject to regulation by a board or agency regulating a profession or occupation under this title.
(8) A national, state, district, or local organization that operates as an affiliated entity under the approval of an organization listed in subdivisions (1) through (7).

The Indiana Ethics and Law requirement:
ACEC-IN has available an on line course to meet these requirements. For more info and to register, go to this link: http://acecindiana.org/education/continuing-education/
Professional Directory Advertising

CONSULTING ELECTRICAL ENGINEER, PLLC

JAMES W WILSON III, PE

107 Creekside Dr. Georgetown, KY 40324
Phone: 859-846-4225 Mobile: 859-227-5940
Email: jwwilson3@roadrunner.com

Make a donation to the Kentucky State MATHCOUNTS program!
http://bit.ly/UNnumC
We have many activities planned this year for the 2013 KSPE Annual Convention which is going to be held on April 10-12, 2013 at the Galt House Hotel in Louisville, Kentucky.

There will be plenty of seminars to choose from, we have scheduled 52 unique sessions for this convention, covering topics ranging from public relations, legal issues, transportation topics, vertical construction, structures and more.

A golf outing has been scheduled for Wednesday, April 10th starting at 10:00 am at the Quail Chase Golf Club in Louisville. The outing fee is $75.00 and is only open to 72 golfers so you will want to get signed up quickly. Lunch is included.

We have tours scheduled for the MSD Guthrie Plant, the Big Four Bridges and 21st Century Parks. The Guthrie Plant tour is scheduled for Wednesday afternoon and the other two tours are scheduled for Thursday.

A Wednesday Night opening reception will be taking place at the Frazier Arms History Museum, at the corner of Main and 9th Streets. There will be food, drink and music, as well as the opportunity to tour the entire museum.

Be sure to register for this wonderful convention, which you can do online at http://www.kyengcenter.org or by filling out the PDF registration on page 12. We look forward to seeing you.
The convention is being held at the Galt House Hotel in Louisville. The hotel facilities include WiFi access, pool, fitness center, business center, and more.

Make your room reservation before March 19, 2013. Our block of rooms will be released to the general public on March 20th. Hotel reservations are subject to taxes.

HOTEL INFORMATION
Galt House Hotel & Suites
140 North 4th Street
Louisville, KY 40202
Phone: (502) 589-5200

Web: https://resweb.passkey.com/go/KSPE2013
Rate: Rivue Tower - $122.00
     Suite Tower - $147.00
Room Block will be released on March 19, 2013.

A Special Evening at the Frazier Arms History Museum

Kick off the KSPE Convention with us at the Frazier History Museum with knights and soldiers as well as Annie Oakley and Buffalo Bill and your professional colleagues from around Kentucky. Enjoy the exhibits that will bring you face to face with some of the people and events that changed the world forever and do it with your colleagues who change our world daily.

There will be food and drink and music --- plus access to the entire Museum to visit. We might even see some of those knights in action or perhaps Annie and Bill will pay us a visit.
## Registration Details

**KSPE Chapter:**

**Name:** ______________________________________________________

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

**Company/Firm:** ________________________________________________

**Street Address:** ________________________________________________

P.O. Box: ____________ City: ______________ State: ______ Zip Code: ________

**Phone:** (_____) _______________ Fax: (_____) __________________

**Email:** _________________________

**Convention Badge:** _____________________    _____________________   _____________________   _______________________

**Cell Phone:** _________________________

**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

**Phone:** (_____) _______________ Fax: (_____) __________________

**Email:** _________________________

**Convention Badge:** _____________________    _____________________   _____________________   _______________________

**Name(s):**

Your Preferred Badge Name  Spouse/Guest Badge Name  Child's Name and Age  Child's Name and Age

**Convention Badge:** _____________________    _____________________   _____________________   _______________________

**Name(s):**

Your Preferred Badge Name  Spouse/Guest Badge Name  Child's Name and Age  Child's Name and Age

**Convention Badge:** _____________________    _____________________   _____________________   _______________________

**Name(s):**

Your Preferred Badge Name  Spouse/Guest Badge Name  Child's Name and Age  Child's Name and Age

**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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Your Preferred Badge Name  Spouse/Guest Badge Name  Child's Name and Age  Child's Name and Age

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**Convention Badge:** _____________________    _____________________   _____________________   _______________________

**Name(s):**

Your Preferred Badge Name  Spouse/Guest Badge Name  Child's Name and Age  Child's Name and Age

## Seminars and Tours

### Wednesday, April 10, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 - 10:00 am</td>
<td>66th Annual KSPE Convention Registration Information</td>
</tr>
<tr>
<td>10:00 - 11:30 am</td>
<td>Seminar: Developing &amp; Maintaining a Successful Engineering Practice</td>
</tr>
<tr>
<td>12:00 - 1:30 pm</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:45 - 3:15 pm</td>
<td>Seminar: Understanding and Implementing Sustainability in Engineering</td>
</tr>
<tr>
<td>3:30 - 5:00 pm</td>
<td>Seminar: The Future of the Built Environment</td>
</tr>
</tbody>
</table>

### Thursday, April 11, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 9:30 am</td>
<td>Seminar: The Role of Engineers in Building Resilient Communities</td>
</tr>
<tr>
<td>9:30 - 11:00 am</td>
<td>Seminar: Opportunities and Challenges in Infrastructure Engineering</td>
</tr>
<tr>
<td>11:00 - 12:30 pm</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:30 - 3:00 pm</td>
<td>Seminar: Sustainability in the此工程学学科</td>
</tr>
<tr>
<td>3:30 - 5:00 pm</td>
<td>Seminar: The Future of the Built Environment</td>
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</tbody>
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### Friday, April 12, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 9:30 am</td>
<td>Seminar: The Future of Engineering in the此工程学学科</td>
</tr>
<tr>
<td>9:30 - 11:00 am</td>
<td>Seminar: Opportunities and Challenges in Infrastructure Engineering</td>
</tr>
<tr>
<td>11:00 - 12:30 pm</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:30 - 3:00 pm</td>
<td>Seminar: Sustainability in the此工程学学科</td>
</tr>
<tr>
<td>3:30 - 5:00 pm</td>
<td>Seminar: The Future of the Built Environment</td>
</tr>
</tbody>
</table>

## Events and Guest Tickets

<table>
<thead>
<tr>
<th>Event</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Golf (Includes Fees &amp; Lunch)</td>
<td>$75.00</td>
</tr>
<tr>
<td>Order of the Engineer</td>
<td>$10.00</td>
</tr>
<tr>
<td>Wednesday Night Event</td>
<td>$25.00</td>
</tr>
<tr>
<td>Thursday Lunch</td>
<td>$25.00</td>
</tr>
<tr>
<td>Thursday Night President's Party</td>
<td>$35.00</td>
</tr>
<tr>
<td>Friday Lunch</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

**DEADLINE:** March 22, 2013

**REGISTER ONLINE at www.kyengcenter.org**
## KSPE 2013 Annual Convention

### WEDNESDAY, April 10, 2013

<table>
<thead>
<tr>
<th>Morning Time</th>
<th>Technical Sessions</th>
<th>Room 1</th>
<th>Room 2</th>
<th>Room 3</th>
<th>Tours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 - 1:50 pm</td>
<td>Resuscitating a Value Engineering Program</td>
<td>Brent Sweger, PE, AVS, KYTC; Boday Borres, PE, AVS, KYTC</td>
<td>Project Lead The Way - Across Kentucky</td>
<td>Dianne Leveridge, Director PLTW-KY</td>
<td>KYR00 General Permit for Stormwater Discharges Associated with Industrial Activity and Update on Other General Permits</td>
</tr>
<tr>
<td>1:50 - 2:40 pm</td>
<td>Quality Assurance through Constructability Reviews &amp; Lessons Learned</td>
<td>Jonathan West, PE, KYTC; Boday Borres, PE, AVS, KYTC</td>
<td>Environmental Regulations Impact on LG&amp;E and KU Energy's Generation Portfolio</td>
<td>John N. Voyles, Jr., LG&amp;E and KU Energy LLC</td>
<td>Mason &amp; Hanger Topic</td>
</tr>
<tr>
<td>3:15 - 4:00 pm</td>
<td>LPA Topic - David Moses</td>
<td>Monitoring the Hydrological Performance of Permeable Pavement</td>
<td>Hamidreza Kazemi, Ph.D. Candidate, UofL's Center for Infrastructure Research</td>
<td>Importance of Waterways in Kentucky</td>
<td>Lynn Soporowski, KYTC</td>
</tr>
<tr>
<td>4:00 - 5:00 pm</td>
<td>KYTC's Pilot Project on 3D Modeling/Automated Machine Guidance</td>
<td>Jeff Jasper, PE, Kevin Martin, PE, &amp; Jason Littleton, PE, KYTC</td>
<td>Reliability Modeling of Overhead Power Lines</td>
<td>Dr. Chris Foreman, Professor, &amp; Brian Lenhart, Master Student, UofL's Intelligent Systems Research Laboratory &amp; UofL's Electrical &amp; Computer Engineering Dept</td>
<td>The Future of Total Maximum Daily Loads; Community Involvement</td>
</tr>
</tbody>
</table>

**Evening**

Icebreaker - Frazier Arms Museum from 6:00 pm - 10:00 pm (RSVP Required)
## KSPE 2013 Annual Convention

**THURSDAY, April 11, 2013**

<table>
<thead>
<tr>
<th>Time</th>
<th>Registration</th>
<th>Technical Sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am - 4:30 pm</td>
<td></td>
<td><strong>Room 1</strong></td>
</tr>
</tbody>
</table>
| 8:00 - 8:50 am |              | Bluetooth Based Data Collection for Transportation Uses  
Paul A. Slone, PE, PTOE, URS Corporation  
Fate of Historic Truss Bridges: Decision-Making  
Len O’Connell (KTC); Phil Logsdon (KYTC); Tom Mathews (KYTC)  
Dale Hollow Dam, Exploratory Grouting - US Army Corps of Engineers, Celina, TN  
R. Mike Bivens, PE, Rembco  
US Army Corps Presentation  
Lee Anne Devine, USACE  
Ohio River Bridges Public Relations  
Chad Carlton, C2 Strategic Communications  
**Room 2**  
How to Survive Design Build  
William L. Maynard, PE, LEED AP BD+C, GRW Engineers  
Roller Compacted Concrete  
James W. Render, Jr., Essroc Cement Company  
Presentation #1 from Metropolitan Sewer District (MSD)  
Louisville Water’s Riverbank Filtration Program: What We Have Learned and Where We Are Headed - Kay Ball, Louisville Water Company  
Risk Management Issues & Liability Issues  
John Hays, Jackson Kelly; Mike Busick, Underwriter’s Group  
**Room 3**  
The Mountain Parkway Corridor - In My Lifetime?  
- Jason Blackburn, PE, KYTC and John Michael Johnson, KYTC  
Anatomy of a Federal Prison’s Mechanical Systems - Doug Cage, GRW Engineers  
Report on New Regulations & Regulatory Changes  
- Sreenivas Kesaraaru, PE, Kentucky Department of Air Quality  
Louisville Water’s Riverbank Filtration Program: What We Have Learned and Where We Are Headed - Kay Ball, Louisville Water Company  
**Room 4**  
I-69 Corridor - Kevin McClearn, KYTC & Jim LeFevre, PE, KYTC  
Triumphs and Challenges in Implementing a Wide Scale Sewer Rehab Program - Tim Tucker, PE, Cannon & Cannon; Knoxville Utilities Board  
The Seven Habits of Highly Effective Pavements - Brian Wood, Plantmix Asphalt Industry of Kentucky  
Mechanical Wastewater Treatment Plants/ Pump Stations Lessons Learned - John Loechle, MSD  
Engineering Professionalism and Ethics - John Hays, Jackson Kelly  
**Room 5**  
Development of Virtual Bridges Inspection Computer Based Training for FHWA - Ron Gardner, Michael Baker  
Kentucky Demographic Trends - Mike Price, Kentucky State Data Center at University of Louisville  
Seismic Geotechnical Engineering  
Ron Ebeltar, Terracon & Darrin Beckett, KYTC  
Presentation #2 from Metropolitan Sewer District (MSD)  
Website Issues for Engineers  
- James C. Eaves Jr, PE, Bingham Greenbaum Doll LLP  
**Tours**  
Tour of Big Four Bridge  
Tour of 21st Century Parks  
Tour of 21st Century Parks  
Lunch: Speaker - 21st Century Parks

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<thead>
<tr>
<th>Time</th>
<th>11:30a - 1:30 pm</th>
<th>1:30 - 2:20 pm</th>
<th>2:50 - 3:40 pm</th>
<th>4:10 - 5:00 pm</th>
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<tr>
<td>11:30a - 1:30 pm</td>
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<td>I-69 Corridor - Kevin McClearn, KYTC &amp; Jim LeFevre, PE, KYTC</td>
<td>Development of Virtual Bridges Inspection Computer Based Training for FHWA - Ron Gardner, Michael Baker</td>
<td>KYTC Professional Services - An Update on the Past, Present and Future - Mike Hill, PE, KYTC</td>
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<td>1:30 - 2:20 pm</td>
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<td>Triumphs and Challenges in Implementing a Wide Scale Sewer Rehab Program - Tim Tucker, PE, Cannon &amp; Cannon; Knoxville Utilities Board</td>
<td>Kentucky Demographic Trends - Mike Price, Kentucky State Data Center at University of Louisville</td>
<td>Geosynthetic Coal Combustion Residual (CCR) Waste Containment Solutions - Steve Mayes, GSE Environmental</td>
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| 2:50 - 3:40 pm |                 | The Seven Habits of Highly Effective Pavements - Brian Wood, Plantmix Asphalt Industry of Kentucky | Seismic Geotechnical Engineering  
Ron Ebeltar, Terracon & Darrin Beckett, KYTC | Moving Forward into the 21st Century - Expanding Kentucky’s Broadband Infrastructure & Utilization  
Roberta W. Lois, Michael Baker; Brian E. Kiser, Kentucky Office of Broadband Outreach and Development |
| 4:10 - 5:00 pm |                 | Mechanical Wastewater Treatment Plants/ Pump Stations Lessons Learned - John Loechle, MSD | Presentation #2 from Metropolitan Sewer District (MSD) | What Are You Doing in My Neighborhood? Why Customer Communication Matters - Kelley Dearing Smith, Louisville Water Company |
|               |                 | Engineering Professionalism and Ethics - John Hays, Jackson Kelly | Website Issues for Engineers  
- James C. Eaves Jr, PE, Bingham Greenbaum Doll LLP  
Tour of 21st Century Parks  
Tour of 21st Century Parks | The Benefits, Risks and Opportunities by Public-Private Partnerships- C. Michael Shull III, Frost Brown Todd LLC |

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<th>Time</th>
<th>4:10 - 5:00 pm</th>
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<td>4:10 - 5:00 pm</td>
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|                 | President’s Party at the Galt House Hotel  
Installation of Officers, Leadership PE Graduation, Recognition & Awards |                  |
KSPE 2013 Annual Convention

FRIDAY, April 12, 2013

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<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</td>
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<td>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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<tr>
<th>Room 1</th>
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<tr>
<td>Designing for Pedestrian Safety - Dirk Gowin, PE, PLS, Louisville Metro</td>
<td>Recent Updates to the Division of Engineering Procedures Manual</td>
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<td>- Bill Slone, PE and Paul Gannoe, Finance and Administration Cabinet, Division of Engineering &amp; Contract Administration</td>
</tr>
<tr>
<td>10:00 - 10:45 am</td>
<td>Ethics Involving Underground Mine Mapping - Marco M. Rajkovich, Jr., Rajkovich Williams Kirkpatrick &amp; True PLLC</td>
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<tr>
<td>MAP 21 Update - Steve Mills, FHWA</td>
<td>Kentucky Building Code and YOUR Project, What Every Design Professional Needs to Know</td>
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<td></td>
<td>Dean C. Durbin, PE, MSI, &amp; Shayne Brashear, MSI, CWI, CSI of Kentucky</td>
</tr>
<tr>
<td>10:45 - 11:30 am</td>
<td>LUNCH SPEAKER - Lee Todd on the Future of Engineering</td>
</tr>
<tr>
<td>1:30 - 2:20 pm</td>
<td>KRS 322 Code of Conduct - Marco M. Rajkovich, Jr., Rajkovich Williams Kirkpatrick &amp; True PLLC</td>
</tr>
<tr>
<td>Legal Topic - Jean Terry, Manion Stigger</td>
<td>Fueling Tomorrow with Biodiesel - Rob Williams, PE, EEC; Eric Bias, PE, EEC; Ted Blum, Marathon Petroleum</td>
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<tr>
<td>2:20 - 3:10 pm</td>
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KSPE’s Order of the Engineer Ceremony will be conducted during Friday, April 12th’s, breakfast program, held at the Galt House Hotel in Louisville.

Any engineer is eligible for induction if he or she has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer. The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer. 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.
BLOCK KIDS: BUILDING IN 2012

The Block Kids Building Program is a national building program competition sponsored by the National Association of Women in Construction (NAWIC) Education Foundation. The Block Kids Program was created to introduce children in grades 1-6 to the construction industry. Local NAWIC chapters coordinate local Block Kid competitions where the students are given a set of items and have one hour to build a project that is in some way related to the construction industry. NAWIC members volunteer their time to interview and judge the children’s completed projects in which the local winners go on to compete at the regional and national level.

The Bluegrass Chapter of National Association of Women in Construction held their annual Block Kids competition on October 25, 2012. The NAWIC Bluegrass Chapter saw fifteen children participate in this year’s competition. This year, the winning project at the Bluegrass Chapter competition, featured a wrecking ball and machine complete with exhaust stack, tracks and a dumpster for debris.

If you’d like to learn more about the Block Kids program, visit the NAWIC Education Foundation Webpage, click Education > K-12 Programs > Block Kids.
ELSWICK APPOINTED PRESIDENT OF SUMMIT

Summit Engineering Inc. Board of Directors are excited to announce that Mr. Philip R. Elswick, P.E., has been appointed President of the company. Jack Sykes, P.E., P.L.S. has announced that he will resign as President but will remain actively involved with the company as Chairman of the Board. “I speak on behalf of the Board of Directors when I say we take great pleasure in Philip’s appointment and that we look forward to his valuable contribution to Summit and the future of Summit” said Sykes. “He will bring a strong skill set to the team, and we have great confidence in his ability to lead the company going forward.”

Mr. Elswick and Mr. Sykes have been working on this transition for several months to ensure a smooth changeover. Elswick joined Summit in 2004 and has been Director of the Environmental Services since 2008. In August of this year, Elswick was added as an Associate Principal of the company. “In the past 35 years, Summit has built a reputation for having a dedicated team of professionals who are committed to build the best engineering consulting firm found in the Appalachian area. I am proud of what has been built and I plan to continue the growth of the company,” said Elswick. “Summit has always sought to provide high quality designs that meet the needs of our clients and improve the region in which we live and work. This model has worked well in the past, and I am certain it will continue to be successful in the future.”

About Elswick

Elswick is a registered engineer in seven states. He holds a BS and MS in Chemical Engineering from University of Kentucky. He has served as President of the Kentucky Society of Professional Engineers, Big Sandy Chapter and continues to serve the chapter as its representative on the KY Society of Professional Engineers Board of Directors. Elswick also serves on the Board of Directors of the Scholar House of Central Appalachia. Elswick has made presentations to the Kentucky Legislature, Kentucky Society of Professional Engineers, National Association of Abandoned Mine Lands, and the Pike County LNG Summit.

DEAN DURBIN, MASTER OF SPECIAL INSPECTIONS

Consulting Services Incorporated headquartered in Lexington, is pleased to announce that one of our Principal Engineers, Dean C. Durbin, PE, MSI has achieved the coveted certification of Master of Special Inspections from the International Code Council (ICC) which is based on experience and certification examinations. He is the first person in Kentucky to hold both a Professional Engineer’s (PE) License and Master of Special Inspections (MSI) Certification from ICC.

Dean has been a member of KSPE since 1997 and graduated with a Bachelor of Civil Engineering degree and a Masters of Business Administration both from the University of Kentucky.

This achievement underscores Dean’s commitment to the International Code Council’s (ICC) Special Inspection Program and places him among the leaders in his field.

The International Code Council is a membership organization dedicated to building quality, safety and fire prevention and developing the codes used to construct commercial buildings and various others, including homes and schools.

Most U.S. cities, counties and states, including Kentucky, use the International Building Codes developed by the International Code Council.
KSPE SAYS GOODBYE TO ONE OF ITS OWN

SAMMIE F. LEE

At age 83, Sammie F. Lee passed away at his home on Thanksgiving Day following a typically determined fight with cancer, providing a keenly appreciated new meaning to the holiday for his family and friends who are deeply thankful for his remarkable life.

Throughout his life he displayed an untiring love of public and civil service, always striving to bring higher standards to the engineering profession, the political process, and a number of civic organizations. He served as president both of the Kentucky Society of Professional Engineers and the National Society of Professional Engineers, during which time he was active in governmental affairs and testified before Congress on behalf of the profession.

He is survived by his beloved wife of 60 years, the former Frances Farmer; his son David Lee (Terrie); daughters Cynthia Burgess (Dan) and Karen Vidal; grandsons, Eric Masters, M.D., Bryan Lee, Matthew Burgess (Arlyn) and Christopher Burgess (Ruthie); and great-granddaughter, Nancy Lee Burgess.

A true engineer who will be dearly missed.

Abigail Lily Coleman
Thursday, December 20 at 1:59 pm
9 lbs 6 oz
20.5 inches long

Tiffany Coleman and her husband welcome...
CONGRATULATIONS

New Kentucky PEs

Nicholas B. Adams
Michael V. Albanese
Bryan C. Atkins
Daniel R. Breetz
Brian G. Burch
David L. Burrier
Grace N. Bussey
Lindsay M. Carter
Christopher J. Clemens
Kristen G. Cooper
Josh M. Corbett
Gabriel B. Dadi
Adam R. Davis
Christopher A. Day, Jr.
Eric B. Devins
Michael P. Eten
Rachel C. Fortzon
Ryan L. Goser
Troy L. Gullett
Eric F. Hackworth
Michael A. Hagan
Kevin W. Harris
Joshua M. Hoffman
David M. Howell
Joshua P. Huesing
Harry C. Hunter, III
Aaron F. Johnson
Christopher J. Jones
Srinivasa R. Kallem Bapu
John M. King
Scott R. Kozenski
Gabriel J. Lepeak
Alexandre Martin
William R. Mattingly, IV
Stewart W. McCollam
Elizabeth A. McCullough
Joshua D. Melson
Brent S. Merman

Elizabeth B. Middleton
Chase A. Mills
Donald M. Modaff
Vijayakumar Nachiappan
Jonathan R. Newman
Sean M. O’Bryan
Amanda S. Parmley
Bradley S. Petri
Kyle B. Pinson
Paul D. Rader
Adam J. Ramsey
Glenn D. Reynolds
Michael T. Rhea
Mac C. Rice, Jr.
J. Michael Rich
Timothy J. Ruhland
Allen M. Rust
Jason R. Schmidt
Steven W. Shifflett
Jacob C. Sinkhorn
Lucas L. Slavey
James F. Spears
Nathan D. Taylor
James A. Troutman
Jay D. Tucker
Anthony E. Tzouanakis
David J. Underwood
Lannie S. Vance
Christopher L. Vandergrift
Jason K. Ward
Matthew W. Weekley
Troy T. Whitfield
William E. Worrall, II
Daniel E. Wray
Chou-Yu Yong

20 | KENTUCKY ENGINEER Quarterly Magazine  WINTER 2013
Those of you taking the time to read this are probably well aware; one of the hardest things for an engineer to do is talk about him or herself. Now imagine writing about yourself. Upon getting the news that I had been selected for this honor, I immediately thought of the difficulty I would face to pen this piece. I was not an English major, I am an Engineer. Bearing this in mind, please enjoy my humble attempt at describing the road I have traveled, leading up to being named the KSPE Young Engineer of the Year. Along the way, we will collect some blocks; the blocks that, when bound together, make up the foundation on which I stand.

As with any story, mine originates from two wonderful parents. There is no better way to begin than saying thank you to my parents, Robert and Brenda Hensley. Their love and support allowed a boy from Harlan, Kentucky to grow into the man I am today. I did not always agree with them, after all, I did know everything in those days, but they have been the cornerstone of my foundation by providing the love and encouragement any child needs for success. Being a parent myself, I now understand that there is no better praise than glowing in the accomplishments of your children. I know you are both proud of me and I want everyone to know how grateful I am for all you have sacrificed on my behalf. Thank you.

As many may expect, (I did grow up in the mountains of East Kentucky) my father spent most of his career in the coal industry. I think that is probably why I was pushed so hard away from it. Their struggles helped guide my future. They wanted better for me, as most parents do. I am the first in my family to graduate from college. That may no longer be the accomplishment it was once considered, but to my family, and many others, it certainly was. I graduated with honors from James A. Cawood High School in 1996 and enrolled in Southeast Community College. I had received a small academic scholarship, which afforded me the opportunity to live at home another year. Looking back, that was a very smart decision.

Throughout grade school, everything managed to fall together in the right places. I never had a need to study, so I didn’t. School was something I considered easy. Attending Southeast is when I was challenged, or rather, forced to understand the benefits of studying. Learning the discipline of how to study added an important block to my foundation. The following year I enrolled at the University of Kentucky. There really was no question as to which school I would attend. We didn’t visit any other schools. We are a Kentucky family and I was going to UK.

Around this time is when I decided to major in engineering. I spent about five minutes as an electrical engineering major before finding my true home as a civil engineering student; I have never looked back. Several professors come to mind as being an inspiration to me while at UK and, as a proud alumni, I can say that UK offers an excellent program lead by a group of talented individuals. For fear of leaving someone out, I will not list names, (anybody else see fog when trying to remember college?) but I do thank you, each of you, for your contributions along the way. However,
I am especially grateful for the Co-op Program offered by the College of Engineering. Having the ability to gain real world experience, while obtaining course credit, is extremely beneficial when it comes time to graduate and begin your career in full force. Gaining these valuable experiences provided additional blocks, further strengthening my foundation.

After entering into the workforce, I was quickly introduced to KSPE; more specifically, to Kentucky’s MATHCOUNTS program. I was tasked with developing the Image of the Engineer with Donnie Horn. This was a program, or a campaign, to help show Kentucky’s Mathletes what engineers did, who engineers were, and to explain what engineers do day to day. (TV may tell us what doctors and lawyers do, but unfortunately, there is no Sitcom about two wacky engineers and their highway design struggles.) We have continually worked to enhance the Image over the years, but as we enter into its 10th year—the 30th year for MATHCOUNTS—we remain convinced it helps relate engineering to middle school students across Kentucky. I have remained involved in the program in many capacities over the years, serving as Chair in 2008. Last year was particularly rewarding, not only for the program, but for me as well. I received the 2012 D.V. Terrell award for my part in obtaining 39 new scholarships to be awarded annually by Western Kentucky. I am proud of this accomplishment, not because I did something, but because of what it represents. If just one of those scholarships pushes a young student to excel, to go further than they ever dreamed, then we have made a meaningful contribution to society and hopefully, that student will go on to do the same. Kentucky’s MATHCOUNTS program is the envy of many around the country and, if you are not already involved, I urge you to get involved. You will not be sorry. (You can even make financial donations online, go to http://bit.ly/UNnumC) And truth be told, MATHCOUNTS is responsible for multiple blocks that add support to my foundation. The leadership skills and life lessons I obtained through the MATHCOUNTS program are second to none.

A sound bit of advice for the younger engineers: get involved with your local chapter of KSPE. The benefits of being involved are nearly immeasurable. Engineers are notorious for being introverts. What better way to improve your speaking skills than being thrown into a room full of people as eager to be alone as you are and be forced to talk to each other! In addition to forcing you out of your shell, KSPE is great for networking, helping you get involved politically, helping you continue your education, and helping you give back to your community. I am a Past-President of the Bluegrass Chapter and served in many officer positions along the way; each has contributed further to my increasingly solid foundation. Don’t be afraid to get involved, start small and go from there. Then, when you are ready, make the jump and apply for the Leadership PE program. LPE is an excellent program and one you should strive to be a part of. I am an alum of the ninth class and there are many things I will never forget about the times we had together. I remain in contact with the majority of my classmates today, six years later. It truly is a program that develops the future leadership of Kentucky and I owe a lot to it. I can see how it has, and continues to, affect me in my daily life. My KSPE and LPE experiences continue to strengthen my foundation today and I expect I will continue to grow as a result of these experiences for years to come.

Thank you to the many volunteers I have worked with during MATHCOUNTS, for KSPE functions, and during LPE. Each of you provided an example that I, in some way, have learned from. Thank you Marcie, George,
Nancy and Jennifer.

Thank you to the many mentors I have had the privilege of working with over the years. I have built the knowledge I have from our encounters. Folks at KYTC, co-workers, and competitors have all played a part in educating this country boy. Most of all, I want to thank Les Haney and Jerry Cottingham. Since joining EA Partners, these guys have mentored me in all things engineering as well as in life. I cannot thank EA enough for what they have given me. I consider EA as part of my family. I prefer to think that not a day goes by that I don't learn something new; this new knowledge continues to build upon my foundation, solidifying what has become my daily life.

The experience and knowledge gained through KSPE and LPE have equipped me to take on leadership roles in our church. I like to think God planned it that way, preparing me for a role He had in mind even though it wasn't on my radar. By the time this article reaches you, I'll be wrapping up my term as Chair of our Deacon Body. I don't think that I would have ever considered taking on this role without the leadership skills gained through my engineering networks. Thank you to those I have worked with at church. I learned at an early age the importance of building my foundation on solid rock, and our church family is a big part of maintaining that stability.

Finally, thank you to my family. My wife Kim, and my sons Evan(5) and Cooper(2). Life simply would not be complete without you. You put up with me on a daily basis, the good and the bad, and that's more than I can say for most people. I'm quite certain that you know more about guardrail safety than most EIT's do. Thanks for putting up with me; I don't know how you do it! I dedicate this award to you, for I would not be claiming the prize if you were not a part of my life. I love you all more than you could know. You are the glue that holds it all together.

Throughout this article I have managed to collect quite a few blocks further adding to my foundation. Education. Experience. Mentors. Knowledge. Friends. Family. God. These are some of the tools that have led to my success. I hope that in some way you can gain something from my story and never forget, the best part about life is that there is always room for more, as long as you are not afraid to let it in.

*My health may fail, and my spirit may grow weak, but God remains the strength of my heart; he is mine forever.*

*Psalm 73:26*
2013 KSPE Annual Convention
April 10-12, 2013

Oh, the places you’ll go!