Mechanical Engineering Research Team Wins Multi-Year NASA Grant

This summer, researchers from the University of Kentucky received a $1.05 million NASA Research Award through the Experimental Program to Stimulate Competitive Research (EPSCoR). The grant is titled, “Improving Heat Shields for Atmospheric Entry: Numerical and Experimental Investigations for Modeling Ablative Thermal Protection System Surface Degradation Effects on Near-Wall Flow,” and aims at understanding the complex behavior of sophisticated ablative heat shield materials. These materials are able to withstand higher velocity interplanetary atmospheric entry by vaporizing some of their surface material to move heat away from the vehicle.

The science team is led by Dr. Alexandre Martin, who will develop theoretical and numerical models that can be tested through targeted laboratory experiments. Numerical simulation using these models will be optimized with the help of Kentucky State University professor Dr. Chi Shen, utilizing UK’s new supercomputer cluster. Co-investigator Dr. Sean Bailey will perform the experimental part of the research, with the help of Dr. Michael Winter. All three UK researchers are professors in the Department of Mechanical Engineering. In addition, the team will work with five researchers from NASA Ames Research Center, NASA Johnson Space Center and NASA Langley Research Center.

NASA Kentucky Space Grant and EPSCoR programs director Dr. Suzanne Weaver Smith and associate director Dr. Janet Lumpp will help manage the grant, communicating new opportunities for the research team and accomplishments to the NASA program office. The grant marks the fourth consecutive year that an institution from the state of Kentucky has received a NASA EPSCoR grant, and the third time in the last four years that UK has led the science team. Electrical and computer engineering professor Dr. Jim Lumpp and mechanical engineering professor Dr. Haluk Karaca previously headed successful NASA EPSCoR grant awards.
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SAYING GOODBYE

Richard Adair Howerton, 70, of South Portsmouth, KY, went to be with his Lord Monday, October 14, 2013, in Southern Ohio Medical Center in Portsmouth, OH. He was born February 16, 1943, in South Portsmouth, KY, a son of the late, Orville Howerton and Freda Bertine Boggs Howerton. Surviving are his wife, Gloria Ratliff Howerton to whom he married August 12, 1967; one son Richard (Tammy) Howerton of South Portsmouth, KY; three daughters, Rhonda Howerton of Greenup, KY, and Shannon (Fred) Muller of Lexington, KY; three sisters, Dona King of Richardson, TX, Teresa Howerton of Danville, KY, and Joanna Wilcoxson of Liberty Hill, TX; seven grandchildren, Lyndsay, Madeline and Nathan Hieneman, Joshua, Tayla, Macy and Lily Ann Howerton. He was the owner of Howerton Engineering & Surveying in Greenup, KY, and Portsmouth, OH, a member of the St. Paul Church of Christ in St. Paul, Kentucky, Past President of the Alben Barkley Club, Kentucky Colonel, Fivco Board Chairman, State Board of Licensure for Engineers & Surveyors, Register Surveyor for Kentucky, Ohio and West Virginia, former Director of League of Kentucky Sportsman, Past President of the former South Shore Rotary Club, former member of the Greenup County Democrat Executive Committee, Greenup County Surveyor for 25 years, graduate of Shawnee State University Civil Engineering Technology, and a United States Air Force Veteran. Funeral services will be 1 p.m. Wednesday, October 16, 2013, at the St. Paul Church of Christ, St. Paul Kentucky, with Minister Kevin Yeager officiating at the services. Friends may call at the St. Paul Church of Christ from 10 a.m. until noon. Burial will be in the Howerton Family Cemetery, South Portsmouth, KY. Funeral arrangements under the direction of the Roberson Funeral Home in South Shore, KY. Military graveside services will be performed by the James L. Flannery American Legion Post #276 of South Shore, KY. Online condolences may be left for the family and friends at www.robersonfuneral.com.
It is hard to believe that the holiday season is upon us; it seems like just yesterday the kids started back to school. Your KSPE officers and staff have been working hard for your state engineering society and the profession at large! Much has happened since the last magazine and much is still to come in the next several months. Please read on as I share with you some updates on recent activities, share some of the activities on the horizon and provide more thoughts on one of my passions - mentoring.

18th Annual Kentucky Engineers’ Golf Classic
The 18th Annual Kentucky Engineers’ Golf Classic was held September 25th at the University Club of Kentucky. It was a beautiful day and we had a great showing. With 152 golfers participating this year, we profited more than $10,000 for the Kentucky Engineering Foundation! We would like to extend special thanks to our hole sponsors; BB&T Insurance Services, who provided sponsorship for the Giveaway; Strand Associates and S&ME for the drink sponsorships; and Lynn Imaging for providing the signage. Thanks to all who helped make this event successful for another year!

KSPE Past Presidents’ Scholarship Presented
The George M. Binder – KSPE Past Presidents’ Scholarship was presented to Dylan H. Ward, a civil engineering senior at Western Kentucky University, in mid-September. This scholarship is a one-time award of $2,500. Applicants must meet six different eligibility requirements defined in the application to even qualify for a chance at the scholarship. The selection was based on the overall GPA, their involvement within civic and volunteer organizations, professional activities, professional publications, work experience and the written paragraph that asked them why they wanted to be an engineer. Congratulations Dylan! Learn more about Dylan in the article on page 20.

Early Taking of the PE Exam
The Kentucky Board of Licensure for Professional Engineers and Land Surveyors now allows candidates who have completed the educational requirements and passed the FE exam to apply for the PE exam. Candidates will still need to acquire the required years of experience before applying for licensure. How exciting! Please make sure to tell your newly graduated engineers. What a great way to mentor them towards licensure and beyond!

Fall Seminar Days
Keep working on those PDH’s! The KSPE Fall Seminar Days have been a success! We’ve already been to Somerset, Bowling Green and Prestonsburg. The remaining Fall Seminars on the calendar are the Mechanical/Electrical Day in Louisville on November 12; Paducah Seminars Day on November 19; Dendrology & Native Tree Identification on December 12 at Bernheim Arboretum & Research Forest; and, KRS 322 MTS Code of Conduct & Expert Witness and Lexington Seminars Day on December 17. Thank you to all those that have participated as presenters and as attendees. We couldn’t make it happen without you!

In The Months Ahead
“Young Engineer of the Year” Up For Grabs
It’s that time of year again, when we look to recognize the talented “young” engineering performers across the state. The “Young Engineer of the Year” award is up for grabs!

NSPE defines this award as recognizing a young member who has made outstanding contributions to the Engineering Profession and the community during the early years of his/her career. This award is based on performance in seven areas:
• Collegiate educational and extra-curricula achievements;
• Professional society activities, positions held, and achievements;
• Technical society activities, positions held, and achievements;
• Community and humanitarian activities, positions held,
and achievements;
• Continuing professional competency;
• And career positions after completion of Baccalaureate degree and Engineering career achievements.

As you can see from the evaluation criteria, those chosen to receive the title of “Young Engineer of the Year” are very involved in their local and state community, both from an engineering perspective and as a citizen too.

KSPE awards this honor at the Chapter and State levels. Application of this award must be made by letter of support/recommendation by a Chapter Officer or Representative, member of the State Awards Committee, or member of the KSPE Executive Committee.

Know someone who fulfills the criteria listed above? Please talk to your local chapter officers about this individual’s accomplishments for consideration. Let’s take this a step further. Know someone early in his/her career with the potential to receive this award in the near future? Mentor the individual towards this great achievement by reviewing the NSPE application criteria together and charting out a course to gain the necessary experience and community involvement required.

2014 KSPE Annual Convention
Save the date! The KSPE Annual Convention is coming back to Lexington! On May 21-23, 2014, the KSPE Annual Convention will be held at the Embassy Suites on Newtown Pike. Please consider sharing your wisdom and expertise with your fellow engineers by responding to the call for abstracts. This convention is for YOU and also made successful by YOU! It takes all of us across the state to make this convention a success, either by submitting an abstract, setting up as an exhibitor or by attending the conference and social events. What a fantastic opportunity to gather 16 hours of PDHs in one place, while also networking with your peers and catching up with friends.

MATHCOUNTS Chapter and State Competitions
MATHCOUNTS is right around the corner! Donations are always appreciated to help fund the local and state competitions. Some key dates to remember:
• Chapter Competitions – February 15, 2014 (Contact your Chapter Coordinator to volunteer)
• State Competition – March 21-22, 2014 (Holiday Inn Hurstbourne in Louisville, contact Andrea Rogers to volunteer)

A Word on Mentoring
For those of you that know me, you know the extremely high value I place on the power of mentoring. It’s been the key to my personal and professional growth over the past 20 years. To me, mentoring is about building relationships and taking the time to be personally involved in the lives of others. One of my favorite authors is John Maxwell. In his book Mentoring 101, Every Leader Needs to Know, he sets up three principles that I’d like to summarize for you. The first principle is on adopting a mentor’s mindset, the second is on deciding who to mentor and the third is setting that person up for success.

On adopting a mentor’s mindset, Maxwell lays out nine specific criteria on which the mentor should focus. Let’s talk about a few of them. First and foremost, to be a successful mentor, you must make people development your top priority. Bringing people along with you is much more rewarding than traveling alone. It is critical, however, that you limit who you take along with you, because your time is limited. Develop a relationship with the person you want to mentor before starting the journey together. Enter the mentoring relationship prepared to give help unconditionally, expecting nothing in return except personal satisfaction.

On deciding who to mentor, Maxwell gives ten guidelines for carefully choosing the right mentee for you. Focus on individuals who make things happen and who possess the ability to lead others around him/her. Look for individuals who add value to those around him/her, as they will also be an inspiration to you. Equally critical is his/her ability to live up to commitments, “allowing him/her to overcome obstacles and continue moving forward on the success journey no matter how touch the going gets.”

On setting the mentee up for success, Maxwell suggests that you “see this person as a 10”. He lays out seven specific ways to do this with those you choose to mentor. See them as who they can become, not necessarily where they are today. Equally important is to let them “borrow your belief in them until they can build it within their own self”. Continue to encourage your mentee by catching him/her doing something right and in turn building self confidence, rather than focusing on what may not be so good and fostering defensiveness.

These are merely highlights from a fantastic “how-to” manual on becoming a great mentor. Whether you are looking for a mentor for yourself or you want to sharpen your personal mentoring skills, I encourage you to read the entire book and keep it on your reference shelf. It’s a quick and easy read with lots of pages you will want to revisit time and time again.

Mentoring, its what sustains us from generation to generation.
Richard A. Howerton, PLS
We are saddened at the loss of one of our Board members, Richard A. Howerton, PLS, who passed away October 14, 2013 at the age of 70. Richard's service to our Board; the surveying and engineering professions; and the citizens of Kentucky will be missed.

Early Taking of the Principles & Practice of Engineering Exam
The National Society of Professional Engineers (NSPE) Board of Directors adopted a resolution on July 20, 2013 (Position Statement 1770) recommending and advocating that the National Council of Examiners for Engineering and Surveying (NCEES) and state boards provide flexibility for the optional early taking of the Principles & Practice of Engineering (PE) exam by candidates who have met the educational requirements and passed the Fundamentals of Engineering (FE) exam. The candidates would still need to accumulate the required years of progressive engineering experience in order to become licensed.

At its annual meeting in August 2013, NCEES member boards voted to amend the NCEES Model Law to allow the early taking of the PE exam as outlined above. Also, the board of the Kentucky Society of Professional Engineers (KSPE) unanimously adopted the NSPE resolution at its September 30, 2013 meeting.

The Kentucky State Board of Licensure for Professional Engineers and Land Surveyors (the “Board”) discussed this matter at its October 11, 2013 meeting and voted unanimously to provide for the optional early taking of the PE exam. Candidates can now apply to take the PE exam after completing the educational requirements and passing the FE exam. However, candidates must still meet all other requirements including the required years of progressive engineering experience before applying for licensure.

The Board believes this action will provide a measure of convenience and flexibility for potential licensees whose work experience may be, or may become, narrowly focused. A young engineer who passes the PE exam early may be more likely to become licensed. This should also encourage more engineers in manufacturing, industrial, and governmental settings to become licensed. Increasing the number of licensed engineers improves public protection.

If you have questions or require further information, please contact the Board's Executive Director, David Cox, at b david.cox@ky.gov

Application Process
Before the changes described above, the application to take the Principles & Practice of Engineering (PE) exam was basically two applications in one; to take the exam and to become licensed. Now, that will become two separate applications. Candidates will first apply to take the PE exam. After they have passed that exam and obtained the required number of years of progressive engineering experience, they would then apply for licensure.

We are currently working on online applications both for the PE exam and for PE licensure. In the meantime, we have added temporary paper applications and instructions on our website at http://kyboels.ky.gov/Getting-Licensed/Pages/Engineering-License-Process.aspx

We encourage candidates to wait for the online applications. With the change, we have adjusted the PE exam application deadlines from January 1 to February 1 for the April exam; and from July 1 to August 1 for the October exam.

Calendar of Events

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<tr>
<th>Date</th>
<th>Event Description</th>
<th>Location</th>
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<td>Committee Meetings</td>
<td>Frankfort KY</td>
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<td>January 10</td>
<td>Board Meeting</td>
<td>Frankfort KY</td>
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<td>April 3</td>
<td>Committee Meetings</td>
<td>Frankfort KY</td>
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<td>April 4</td>
<td>Board Meeting</td>
<td>Frankfort KY</td>
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<td>April 11</td>
<td>PE, STR Vertical, PS Exams</td>
<td>Louisville KY</td>
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<td>April 12</td>
<td>STR Horizontal Exam</td>
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<td>April 24-26</td>
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<td>Board Meeting</td>
<td>Frankfort KY</td>
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<td>August 8</td>
<td>Board Meeting</td>
<td>Frankfort KY</td>
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<td>August 20-23</td>
<td>NCEES Annual Meeting</td>
<td>Seattle WA</td>
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<tr>
<td>October 9</td>
<td>Committee Meetings</td>
<td>Frankfort KY</td>
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<td>October 10</td>
<td>Board Meeting</td>
<td>Frankfort KY</td>
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<td>October 24</td>
<td>PE, STR Vertical, PS Exams</td>
<td>Louisville KY</td>
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<td>October 25</td>
<td>STR Horizontal Exam</td>
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ENFORCEMENT ACTIONS SUMMARY
For The Period
July 20, 2013 – October 10, 2013

JAYME MALONE, PLS
In January 2013, Mr. Jayme Malone, PLS of Lincoln, Nebraska entered into a Consent Decree in settlement of a disciplinary action against him. Among other things, that agreement called for Mr. Malone to take an online course in surveying ethics offered by the New Mexico State University. Mr. Malone failed to provide the Board with proof of having taken the class 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. Malone’s professional land surveyor’s license was suspended. The suspension became effective September 3, 2013.

TIMOTHY LEE JORDAN, PE
Mr. Timothy Lee Jordan, PE of Hope, Indiana was disciplined for violating the Continuing Professional Development regulations, 201 KAR 18:196. The case was settled by a Consent Decree wherein Mr. Jordan acknowledged the violation, and agreed to the following: (1) A Letter of Reprimand, (2) An administrative penalty of $1000, and (2) An automatic audit of Mr. Jordan’s CPD credits for 2013 and 2014. The Board accepted the Consent Decree on October 11, 2013.

LOREN ROBERT PURDOM, PLS
APX CONSULTING GROUP, LLC
Mr. Loren Robert Purdom, PLS of Wheelersburg, Ohio was disciplined for operating a land surveying business entity, APX Consulting Group, LLC on a lapsed business entity permit in violation of KRS 322.060. The case was settled by a Consent Decree wherein Mr. Purdom acknowledged the violations, and agreed to the following: (1) An administrative penalty of $2000, (2) Suspension of Mr. Purdom’s professional land surveying license for thirty days, (3) Mr. Purdom shall cause APX Consulting Group, LLC to obtain authorization to conduct business in Kentucky from the Commonwealth of Kentucky (Secretary of State) and shall apply to the Board for reinstatement of the firm’s Business Entity Permit, and (4) Mr. Purdom must complete a New Mexico State University online course in professional ethics. Additionally, because Mr. Purdom is the only designated licensee in responsible charge at APX Consulting Group, LLC, the firm must either designate a new responsible charge licensee or not provide services in Kentucky during the time Mr. Purdom’s license is suspended. The Board accepted the Consent Decree on October 11, 2013.

BOBBY LEE HUDSON, PLS
Mr. Bobby Lee Hudson, PLS of Somerset, was disciplined for engaging in a pattern of violations of the Surveying Standards of Practice, 201 KAR 18:150. The case was settled by a Consent Decree wherein Mr. Hudson acknowledged the violations, and agreed to the following: (1) An administrative penalty of $1000, and (2) Probation of Mr. Hudson’s surveying license for two years with quarterly review of his surveying projects. The Board accepted the Consent Decree on October 11, 2013.

EDVARD GRANDE, PE, PLS
Since 2010, the Board of Licensure has received multiple complaints concerning the land surveying practice of Mr. Edvard Grande, PE, PLS of Gray, Kentucky. After Board staff completed its investigation of two of the complaints, the Executive Director determined that disciplinary action was warranted. Board staff engaged in negotiations with Mr. Grande which resulted in an agreement for the termination of Mr. Grande’s land surveying license. Under the terms of a Consent Decree, Mr. Grande acknowledged significant violations of the Surveying Standards of Practice, 201 KAR 18:150. Mr. Grande agreed that his practice would be immediately limited to the completion of existing projects and the orderly closure of his surveying practice; and Mr. Grande’s license to practice land surveying would be completely terminated effective January 1, 2014. The Board accepted the Consent Decree on October 11, 2013.

***************

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www.GRLengineers.com/spt  GRL-OH@GRLengineers.com
For the last 18 years, the Kentucky Engineering Center has hosted the Kentucky Engineers’ Golf Classic as an event to bring engineers together for a fun day of golf and networking. This year was no different and it seemed to go smoother than ever before. We had beautiful weather! The sun came out just after all the teams had teed off and there was always a nice breeze blowing; we couldn’t have asked for anything better.

This year’s Golf Classic was held, again, at the University Club of Kentucky in Lexington on September 25th. We had 152 golfers show up for their noon shotgun start. Much sponsorship was provided this year from various companies. The Golf Classic committee and staff at the Engineering Center would like to thank BB&T Insurance Services for sponsoring the giveaway this year! Also, we would like to thank S&ME and Strand Associates for their drink sponsorships, as well as Lynn Imaging for providing our sponsorship signs. We had 28 hole sponsors this year, as well. A big thanks to Mike Harris and his Golf Classic Committee for another great year!! We appreciate all that you do to make this such a successful event for everyone.

Congratulations to the first place team from Hall Contracting that included Tom Roberts, Hunter Judy, Randy Downey, and Jim Beam. The eighth place finish went to the team from Jacobi Toombs and Lanz with team members Mike Harris, Kyle Guthrie, Jorge Lanz and Brad Selch (of Louisville MSD). Sixteenth place went to the Advanced Drainage team comprised of Mike Roberts, Rob Young, Todd Young and Tom Hatfield (of EA Partners). Congratulations to the 24th place team from Whayne Supply that included Tracy Knapp, Nick Sallee, Don Schmidt and Art Ulrich. Great job everyone!

Some of our other winners included Kyle Guthrie for Longest Putt, Nicholas Poston for Longest Putt, Cole Mitcham for Closest to the Pin, Todd Young for Longest Drive, Curt Hall for Closest to the Pin, Rick Storm for Closest to the Pin, Morgan Nash for Closest to the Pin, and Dane Blackburn for Longest Drive.

We hope everyone had a wonderful time at the Golf Classic this year and we hope to see you for the Classic again around September of 2014!!
CONSULTING ELECTRICAL ENGINEER, PLLC

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National Delegate
Charles Anderson, PE

Bluegrass Region Vice President
William Bowie, PE, PLS

Central Region Vice President
Justin Verst, PE

Eastern Region Vice President
Michael R. Jones, PE

Louisville Region Vice President
Kelly Meyer, PE, PLS

Western Region Vice President
Clint Harbison, PE

Chapter Presidents
Ashland - Michael Enders, PE
Big Sandy - Ashlie Childers, EIT
Bluegrass - Abbie Jones, PE
Capital - Vaughn Williams, PE
Cumberland Falls - None
Green River - David Topolenski, PE
Kentucky Lake - None
Kentucky River - Chuck Mullins, PE
Louisville - Wes Sydnor, PE
Mammoth Cave - Joe Plunk, PE
My Old Kentucky Home - Henry Greenwell, PE, PLS
Northern Kentucky - Jeff Shuchter, PE
Pine Mountain - Michael Jones, PE

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Big Sandy - Philip Elswick, PE
Bluegrass - Doug Burton, PE
Capital - Brad Eldridge, PE
Cumberland Falls - Robert Zik, PE, PLS
Green River - Tony Huff, PE
Kentucky Lake - none
Kentucky River - Danny Maggard, PE, PLS
Louisville - Kristen Crompton, PE
Mammoth Cave - Matt Rogers, PE
My Old Kentucky Home - Robert Bush, PE
Northern Kentucky - Mike Willenbrink, PE
Pine Mountain - Michael Jones, PE

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Marcie Fisher, Deputy Director
Nancy Parker, Administrative Assistant
Jennifer Gatewood, IT Coordinator

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Phone 502.695.5680 Toll Free 800.455.5573
Fax: 502.695.0738
Email: kspe@kyengcenter.org

PROFESSIONAL DEVELOPMENT OPPORTUNITIES

November 2013

November 19
Paducah - One Day Fall Seminar - Julian Carroll Convention Center

December 2013

December 3 - 6
Applying InRoads (V8i) III - Kentucky Engineering Center

December 12
Fall Dendrology & Native Tree Identification - Bernheim Arboretum & Research Forest

December 17
KRS 322 MTS Code of Conduct & Expert Witness - Clarion Hotel North

December 17
Lexington - One Day Fall Seminar - Clarion Hotel North

Be sure to check the calendar online at http://www.kyengcenter.org for upcoming seminars in 2014!

MAY 2014

21
KSPE Annual Convention
May 21 - 23, 2014
Embassy Suites in Lexington, KY
2013 Class of Leadership P.E.

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Chief, Civil Section
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QUICK! - This time of year is best known for what? The beginning of school? Football? The leaves turning colors? Correct, correct and correct! But for those of us here at the Kentucky Engineering Center it means the KSPE year is now officially in overdrive.

Professional Engineers in Mining
KSPE’s lone remaining Practice Section, the Professional Engineers in Mining, held their annual 26th annual seminar on September 6th at the Marriott Griffin Gate. As we know all too well, coal has been facing tough times. The folks in PEM work diligently to find solutions to the myriad of obstacles facing the industry that has provided many jobs to Kentuckians for decades. The seminar was well-attended with a couple of hundred consultants, coal company employees and regulators.

Fore!
As Angela Akridge alluded to in her President’s article, the 2013 KEF Golf Classic was a success. I would like to thank all you that supported it. The golf committee (thanks Mike Harris, et al) works hard to put on a high-quality event and as a result we have always had a loyal following. This year was no exception. I’ll have to admit that a bit of a concern was raised when the folks at the University Club called a week or so before the date and asked us whether we were still going to have our event! When we asked why they would ask such a thing, they said that the architects had called them and cancelled their annual event for lack of interest! Our turnout, even during a tough year for discretionary spending, was outstanding. I tried to add a new wrinkle to the day’s proceedings by riding around the course and selling “traveling mulligans”. For $5, I would lend my considerable golf talents to taking an extra shot for the team. Many of you put your faith in me, for which I thank you. (Confession: I was having withdrawals; I’m not used to riding around the course and not playing. Those of you that bought mulligans helped pull me through the day…) I think I’m going to change it up again next year and sell that same $5 mulligan as a free shot – advancing the ball without having to count it as a shot. Stay tuned! You can read more about the KEF Golf Classic elsewhere in this edition of Kentucky Engineer.

Leadership PE
The 16th class of Leadership PE has now been through two sessions – Orientation and Communications. This is a great class, one that participates and is eager to learn. You would be proud to see what this group of engineers is bringing to our profession here in Kentucky.

Drs. Rob Mullins and Roddy Williams led the Orientation class, providing insight into each class member’s personal characteristics based on personality testing. The class was also given great guidance on networking, leadership and team building. One of the highlights of this session held in Jamestown, Kentucky is the afternoon on David Houchin’s houseboat on Lake Cumberland. It is a great way for everyone to get to know each other. Thanks to David for his continuing commitment to LPE.

The second session held in Georgetown was dedicated to Communications. Charlie Scroggin, Linda Bridwell and Rosemary Gilbertson provided expert advice on the do’s and don’ts of creating winning presentations, media communications and a critique of presentation skills. The much anticipated grill-out on Thursday evening saw Marcie Fisher bringing in what seemed to be a bushel of vegetables (along with her famous cookies). And thankfully, the new guy on the grill managed to not screw up the 8-pound beef tenderloins that have become a staple of the evening outing.

I have been around LPE over the years, but this is my first time to be a part of every session. I have been nothing short of impressed with the quality and dedication of the session leaders, some of whom have been around since the very beginning. This is an important program for KSPE, the envy of many other state societies. I’ll be making a special effort to report on the on-going activities so that you can keep up with this year’s class.

Chapter Visits
I have had the pleasure of visiting with two of our chapters for one of their monthly meetings. At the Mammoth Cave chapter meeting in Bowling Green, I presented Dylan Ward the George Binder Past Presidents scholarship after the group toured the Richardsville Elementary School, the nation’s first Net Zero energy school.

At the Big Sandy meeting in Prestonsburg, I was able to return to my proverbial KSPE roots. It was at Jenny Wiley State Park that I assumed the presidency of KSPE in 2002. It was a treat to get back and relive some great memories.

I want to visit as many chapter meetings as my schedule allows. So if you have not yet heard from me about getting
meeting dates from you, you soon will. I look forward to visiting with you.

Early Taking of the PE Exam
In the Board of Licensure report in this edition of the Kentucky Engineer, David Cox reports on the actions of the National Council of Examiners for Engineers and Surveyors and your Board of Licensure regarding the early taking of the PE exam. I won’t repeat what David has presented, but I will inform you of the actions taken by NSPE and KSPE. At the NSPE annual meeting in July, the Board of Directors voted to approve a resolution in support of the early taking of the PE exam. At the September 30th meeting of the KSPE Board, this same resolution was adopted in its entirety. The resolution states: “The National Society of Professional Engineers (NSPE)/the Kentucky Society of Professional Engineers (KSPE) recommends and advocates that the National Council of Examiners for Engineers and Surveying (NCEES) and state PE boards provide flexibility for optional early taking of the PE exam by candidates who have met the educational requirements for licensure and passed the PE exam. NSPE/KSPE advocates that the number of years of progressive engineering experience indicated in the NCEES Model Law remain unchanged, such that candidates who pass the PE exam early need to accumulate the requisite number of years of documented acceptable progressive engineering experience prior to becoming licensed.”

NSPE thoroughly researched this issue before adopting the resolution. Some of their findings:

- Nevada, New Mexico and Illinois already allow the early taking of the exam.
- Data from Nevada for the years 2005 – 2011 indicate that for all disciplines, the pass rate for first time early exam takers versus first time exam takers at four years is essentially the same (50% versus 51%)
- The same data show that for civil engineers, the pass rate for first time early exam takers versus first time exam takers at four years is greater (49% versus 44%).
- Only a handful of states currently would not allow comity for licensees that are early exam takers, but with the change in the NCEES Model Law, this can be easily remedied.
- Several professions already allow the early taking of exams in pursuit of licensure, including architecture, law, pharmacy, accounting and nursing.

The KSPE Board discussed the pros and cons of supporting the NSPE resolution. There was agreement that the PE exam is still an academic exercise. Experience does not always ensure a better chance at passing the exam. Benefits identified for the potential licensee included:

- No longer having to “re-learn” everything one had forgotten since graduation. For example, the civil engineer working in water resources that takes the exam early would not have to study all the geotechnical engineering that they once knew. This would be very important to an individual whose career has steered them into a very narrowly focused aspect of engineering.
- An individual would not have to miss an entire examination cycle if they missed having the experience requirement (four years) by a few months or so.
- Successfully passing the exam early can enhance individual’s value to employers; employers see drive/determination and an almost certain attainment of a license.

There are benefits to the profession, too, that include:

- There is a significant drop in the number of individuals that take the FE exam and then the PE exam (approximately 50% never take the PE exam). This should be reduced with the opportunity to take the PE exam early.
- Successfully passing the exam early virtually assures the individual will become a fully licensed PE.
- With sufficient encouragement to those that pass the FE exam while in school to think about taking the PE exam soon after graduation, the numbers taking the PE exam should increase. Get them while they are still in a “test-taking” mode. This should also increase the possibility of getting more of those in engineering disciplines that do not require or even encourage licensure, to take the PE exam.

In the end, the KSPE Board found it easy to unanimously adopt the resolution. The option of an early taking of the PE exam is after all, voluntary. Aside from the occasional “I had to wait four years, so should the new folks” comment made in jest, the conclusion was that this should significantly increase the percentage of engineering graduates that become licensed.

If you have any questions regarding this new option, feel free to contact us here at the Kentucky Engineering Center. If we don’t know the answer, we will try to get one for you.

Finally - by the time the next issue of the Kentucky Engineer reaches your desk, we will have hopefully survived the holiday season. Let me be the first to wish you a great Thanksgiving and a Merry Christmas!
KEC LAUNCHES
NEW SITE

The new Kentucky Engineering Center website has gone live. If you have not had a chance to check it out, now might be a good time to do so. You will notice that the way the information is organized has changed a little but we hope that it will make it easier to find information. Most of the important, timely information will be listed on the homepage, in the slideshow or in widgets. By clicking on the graphics in the slideshow, you will have the ability to learn more about each particular item featured. Information about the upcoming MATHCOUNTS competition, information about EEA Awards requirements, information about seminars and more.

With the new site, brings new opportunities. We are working our way through, trying to decide what features would help and interest you, our members, most. As you may be aware, we cannot just decide on these things alone, we need to get feedback from our members on what is working and what is not. The system can only be as good as how it is utilized. Currently some features are already available, including many you are already used to having with the old system. Through the community, at this time, you have the ability to edit your profile, send messages, see who’s online in the event you need to “chat” with someone, renew your membership, register for classes and more.

Signing In
A sign in area has been made available on every page of the new site, including on the homepage, which means you have easy access to the online community we are building. In order to get signed in, please utilize the username you used on the previous system. All passwords have been changed to a default. If you are a member, you should have received information about the password and username information by email. If you have not received this information, please contact us.

In order to make this system worthwhile, it is best to sign in every time you come to the site. Make it a habit. When you are signed in, you are not restricted to your profile. You still have the ability to navigate the website, but if you are signed in, you have the ability to see who is online, chat, send messages, or register for classes.
Renewing Your Membership
In order to renew your membership, you must first sign in. Once you have done so, if you are up for renewal, there will be a link at the top of your profile, “Renew Your Membership Now”. Once you click that link, it will take you through the online renewal process. You can also access your membership information under the “Invoicing, Payments & History” area. Under that heading, click Membership, then click “Securely renew your membership now” and you will be guided through the renewal process as well.

Each member will continue to receive the notification emails as we have done in the past with directions on how to go about getting into the system and renewing. Please watch your email inboxes for these notifications and try to sign in to the system to be sure we have the correct email address for you. Each individual member will receive notification that his or her membership is to expire sixty days prior to expiration, thirty days prior to expiration and on the day of expiration.

Groups
Over the next few months, we hope to have gotten some feedback on how members like the new system and some suggestions on how we can make it better. We also hope to have had enough conversations with our members to be able to decide how some of our groups should be set up. Considering many different configurations, some of the ideas for groups that have come up are areas for different engineering specialties, along with groups for KSPE Chapters, Committees, and Programs. In order for these groups to function, we will have to have group administrators and group members willing to collaborate, brainstorm, and get conversations going. If you are interested in providing input regarding groups, whether you would like to be an administrator, member or just have ideas, please let us know.

We are still building this new system and choosing the best features to provide you. This is just the beginning. As we explore further the different features made available, we will release information about them to you by email and discuss how they can be utilized within the community. This will be a slow but rewarding process and we hope to utilize this system as much as we possibly can to enhance your membership benefits and connections within the organizations.

If you have any questions, need assistance, or have suggestions, please contact me by email at jennifer@kyengcenter.org or by phone at 502-695-5680.
ENGINEERS CAN LEAD THE WAY WITH PROJECT LEAD THE WAY
By: Lora Boller

Our future engineers are not only coming out of college looking for sparkling new job opportunities with their tassels tossed to the left of their mortar boards. They’re not only sitting in that freshman physics course hoping that “weed-out” doesn’t pertain to them. They’re not only the robotics guru in the high school Vex Robotics competition. They’re everywhere. Students start learning to love engineering as soon as they start learning.

Of course, they don’t call it engineering then. They call it Lego’s. They call it puzzles. They call it “let’s figure out how far we can drop this without breaking it.” When we start to process math and science, we don’t see it as a subject in school. It’s just our brain working out a solution. This type of challenge, this creative problem solving can be lost in a traditional curriculum where teachers are required to teach “by the book” and where most of the work that students do is in the form of worksheets and reading exercises.

Project Lead the Way provides an alternative. They have developed a set of curricula that focus on “doing” math and science. The activities-, project-, and problem-based curriculum engages students and challenges them to think of solutions to problems where there isn’t just one correct answer. The students use math and science in real-world applications. The problems they are faced with challenge and inspire children and bring out their natural curiosity and imagination through creative problem solving.

Bringing out this interest at a young age is key to retention in STEM fields. Children are swayed early toward their careers with some studies showing that students who have an interest in science-related fields in the 8th grade are up to three times more likely to earn a science-related degree. Almost a decade before they earn their degree! Unfortunately, the number of students earning degrees in STEM fields has been declining. So what can be done to create more engineers? How can we prepare young Americans to take our place as engineers of the future?

Project Lead the Way is working on implementing hands-on, active learning in high school, middle school, and even as early as elementary school to peak student interest in STEM at an early age. The earlier, the better! Their mission is to spark an interest at an early age to prepare students to learn STEM. But the students don’t just learn STEM. The creative problem solving, teamwork, deductive reasoning, and exploratory learning skills that PLTW students gain during the program are important tools in any career field.

How can engineers help programs such as PLTW? We can get involved. We can have an active hand in molding and shaping the engineers of the future by donating fifteen minutes, twenty dollars, fifty words, and thousands of voices.

With over 120 PLTW programs across Kentucky and opportunities for the program statewide, we have every
opportunity to help at any level. First, see if an existing program exists near you by checking out the PLTW School Locator at http://www.pltw.org/getting-started/school_locator.

If a PLTW program is already set up near you then you can:

**Be an Interviewee:** Get in contact with a local PLTW teacher and give them permission to pass your e-mail address along to students interested in your career field so they can ask you questions. Some students are required to interview a professional in their field of interest and it only adds a few minutes to your day!

**Mentor a Student:** Let your PLTW teacher know that you would be interested in mentoring a student and see if they can match you up with someone. This could allow you to share your personal experience with a future engineer by e-mail, phone calls, class visits, or maybe visits to your office.

**Join a School Partnership Team:** Certified PLTW schools are required to partner with local business and the community to get ideas about where to gear their course to fit local industry needs and ensure that the curriculum stays relevant and challenging. As an engineer, you have a unique voice in this crowd and it is a great way to learn more about the program without dedicating too much time. The teams usually meet once or twice a school year and some even provide dinner!

**Support your Local Program Financially:** You, as an individual, or your company can help without using up much of your time by donating money to the program. You could sponsor a specific competition or event, training of a new teacher, or the program as a whole.

**Get in the Classroom:** Volunteer some time to do a presentation, judge a competition, help with a project, or come up with your own exciting activity and see how it can be implemented into the classroom.

**Get Them out of the Classroom:** Organize a tour of your facility or provide job shadowing or internship opportunities for students. Kelly Services offers a program to industry so that students 16 and older can get experience in their field of interest without the liability being on the company.

If there's not an active PLTW program in your area, there are plenty of opportunities to get involved virtually at another location or:

**Advocate for a new PLTW Program:** If you think your school could benefit from this program, you can advocate for new programs by meeting with school board members, administrators and other decision makers. Funds are available for start-up programs in Kentucky and this is a great opportunity for all children. Voice your opinion.

For more information about PLTW, please visit www.pltw.org and take advantage of the opportunity to help create tomorrow's engineers. If you would like additional information on the program or how to get involved, please contact the Kentucky Engineering Center, myself at lboller@dlz.com, or the Director of School Engagement for PLTW KY/TN, Mark Harrell (mhharrell@pltw.org).
KSPE AWARDS THE GEORGE M. BINDER KSPE PAST PRESIDENTS’ SCHOLARSHIP

“My entire life I have strived to be the best that I can be, always trying to take my work to the next level. I know engineering has that potential. I want a profession where I feel like I’m needed and that I’m making a difference.”
- Dylan Ward, 2013 George M. Binder - KSPE Past Presidents’ Scholarship Recipient

The George M. Binder - Kentucky Society of Professional Engineers Past Presidents’ Scholarship has been awarded. Out of a pool of seven applicants, the KSPE Scholarship Committee selected Mr. Dylan Ward of Hartford to be their scholarship recipient for 2013.

The $2,500 scholarship required the completion of an application made available by KSPE. To be considered the applicants had to meet six different eligibility requirements defined in the application, including that the applicant be a member of a recognized student engineering organization, the applicant must be accepted and enrolled in a full engineering program, the applicant must have earned at least a 3.0 GPA based on a 4.0 scale and so on. The selection was based on the overall GPA, their involvement within civic and volunteer organizations, professional activities, professional publications, work experience and the written paragraph that asked them why they wanted to be an engineer.

His desire to design new things, solve math problems and play with LEGO’s when he was little began his path towards civil engineering but even though he had the love of those things, his reasoning for wanting to become an engineer evolved beyond that over time. Dylan said, “One of the main reasons I want to become an engineer is because the potential to create something new, that’s never been done before, is infinite.”

Dylan attends Western Kentucky University, majoring in Civil Engineering and minoring in Mathematics. He enrolled in the fall of 2009 and anticipates graduating in the winter of 2013. Thus far, Dylan has maintained a 4.0 grade point average.

Outside of school and his studies, Dylan is extremely active in his societies. Currently serving as Vice President of the Tau Beta Pi Engineering Society, Dylan is responsible for heading up the free tutoring they offer to all engineering students in each of the three disciplines offered at WKU. He is responsible for both helping tutor when he is available, as well as coordinating other tutors within the organization to accommodate tutor requests.

Dylan also works with Bike4Alz, where he is co-chair and treasurer of the ride over the summer. In the summer of 2012, Dylan and nine other college students, dedicated their summer to raising money and awareness for the Alzheimer’s Association. They embarked on a cross-country bike ride from the Canada/Minnesota border to Key West, Florida. In the process, they had numerous fundraisers and interviews in over a dozen major cities. By the end of their summer, they had raised over $60,000 for Alzheimer’s research and awareness. A trek that took a little over a year to plan and organize, the ride took in total fifty-nine days.

Dylan is also an active member of ASCE, where he now acts as Co-Captain of the Western Kentucky University Steel Bridge Team. The competition regionally takes place every spring. He has attended and competed at the regional competition for the last three years.

The Kentucky Society of Professional Engineers is honored to be able to award this scholarship to Dylan, who reflects so many characteristics of an ideal future engineer.
LEXINGTON, KY (September 17, 2013) Teams of Stantec employees from Lexington and Louisville took to three separate sites in their cities on a mission to leave a positive impact on their communities during a day of worldwide volunteerism by the North American design firm on September 10, 2013.

The volunteers were among some 4,000 employees participating in Stantec in the Community Day. The events were part of celebrations for Stantec’s newly unveiled brand, including a new logo and website, reinforcing the firm’s promise to design with community in mind.

In Lexington, a 25-person contingent went to Veterans Park to pick up litter and debris along a section of a stream which runs through the complex of meadows, ball fields, and walking trails.

Meanwhile, in Louisville, one team supported the City of Jeffersontown by removing litter from a well-traveled bicycle and pedestrian trail behind Skyview Park while another picked up trash along a section of Hurstbourne Parkway, supporting the office’s Adopt-a-Highway effort.

Stantec has 280 employees in Lexington and Louisville, providing a range of engineering, geotechnical, and environmental services across the Southeast and Midwest.

You can view Stantec’s launch video and website at www.stantec.com.
MULTI-STATE PRACTICE COULD LEAD TO MULTIPLE CONSEQUENCES

By Jean M. Terry

Engineers are subject to various statues and regulations as a result of their licenses to practice. These statutes and regulations are drafted and enforced by the states in which engineers are licensed. As a result, conduct which is subject to discipline and the modes of discipline vary widely among the states. These differences can become quite prevalent when an engineer is licensed in multiple states but only disciplined in one. This issue is further complicated when the conduct in question is a violation in one state but not in the other.

These considerations are even more significant now, when information is more readily available through the National Council of Examiners for Engineer and Surveying’s (“NCEES”) Enforcement Exchange. The Enforcement Exchange is an “online data base [which] allows [state licensing] boards to enter disciplinary actions taken against violators.” John F. Greenhalge, Get to Know Enforcement Exchange, Licensure Exchange, April 2010, at 2. Enforcement Exchange can be used “to record disciplinary actions [and] to screen applications as well.” Id. NCEES strongly encourages the adoption of the Enforcement Exchange, as it allows states to know “more” about applicants and licensees, particularly whether a seemingly “minor incident” has been committed in other states. Id. According to a 2012 NCEES survey, the Kentucky Board of Licensure for Engineers & Surveyors (the “Board”) uses the Enforcement Exchange both to initiate enforcement actions and when reviewing disciplinary actions against licensees. See http://boards.ncees.org/view/index/board-1023/ (last visited October 17, 2013).

The Board has already confronted the issue of interstate discipline in the case of McKinney v. Ky. State Bd. of Licensure for Prof’l Eng’rs & Land Surveyors, No. 2003-CA-002555-MR (April 22, 2005). McKinney was a professional electrical engineer who was licensed in Kentucky and forty-eight other states. Id. at slip op. 2. The Board accused McKinney of negligence “based on his habit of signing and sealing projects with inadequate review, unauthorized sealing of a land survey plat, and making false representations on his NCEES renewal forms.” Id. McKinney’s Kentucky license was revoked as a result of this negligence and he appealed to the Franklin Circuit Court. Id. at slip op. 2-3. When the trial court affirmed the revocation, McKinney appealed to the Kentucky Court of Appeals. Id. at 2.

“On appeal, McKinney argue[d] that the Board improperly exercised extraterritorial authority in examining his work on projects located outside the Commonwealth and sealed with engineering licenses from other states.” McKinney, slip op. at 3. McKinney claimed that the Board did not have “authority to regulate his practice of engineering related to projects outside the Commonwealth.” Id. at 4. The Court of Appeals upheld the Board’s action, finding that the Board was “regulating the conduct of an engineer licensed in the Commonwealth.” Id. The Court of Appeals also noted that “McKinney’s acts in the practice of engineering actually occurred in Kentucky.” Id. The Board’s finding was upheld even though “there was no evidence that any of the plans [McKinney] signed and sealed contained defects which might have posed a risk to the public health and safety.” Id. at slip op. 7.

The McKinney case provides a perfect illustration of the vigilance engineers must apply to their work. Even if the work is not being performed in Kentucky, engineers can be subject to discipline by the Kentucky Board of Licensure for Engineers & Surveyors.

Moreover, the McKinney case shows how the Board utilizes the exchange of information with other state boards. “McKinney filled out NCEES renewal forms indicating that his license was not suspended in any state, nor was he under investigation by any state. There was evidence that McKinney had been suspended by a number of states and that, in Texas, he had formal disciplinary charges pending.” McKinney, slip op. at 5-6. Based on these facts the Board found, and the Court of Appeals, affirmed, that there was sufficient evidence to find that McKinney “was untruthful in filling out his NCEES forms.” Id. at 6. This finding influenced the Board’s conclusion that McKinney’s license should be revoked.

The Board also examined McKinney’s failure to give truthful testimony to the Nevada Board of Professional Engineers and Land Surveyors. McKinney, slip op. at 6. Not only did the Board and the Court of Appeals find that there was sufficient evidence that McKinney had supplied false information regarding “the number of states in which he was an electrical engineer and the number of engineers he employed” but this evidence supported the revocation of his license in Kentucky, even though the testimony was given to before the board of another state. Id.

McKinney’s failure to adequately disclose his disciplinary records in other states, his violations in other states, and
his dishonesty with the NCEES and the Nevada Board played a pivotal role in the disciplinary action he experienced in Kentucky.

Following the disciplinary action in Kentucky, other states in which McKinney was licensed initiated disciplinary proceedings against him. The Wisconsin Department of Regulation and Licensing determined that McKinney’s actions in Kentucky also violated Wisconsin law, which resulted in McKinney voluntarily surrendering his license. The West Virginia State Board of Registration for Professional Engineers and the Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design found similarly and revoked McKinney’s license.

So how should an engineer with a multi-state practice proceed? With caution! The best option is to abide by all relevant statutes and regulations and thereby avoid becoming the subject of a disciplinary proceeding. In the event that discipline is initiated, however, review the codes and regulations of all states in which you are licensed to determine whether there is a reporting requirement for activity in other states. Given the usual requirement that engineers act with honesty and for the public good, violations in one state are likely to play a role in other states in which one is licensed.
MARK YOUR CALENDARS!

2014 KSPE Annual Convention

MAY 21 - 23, 2014

in Lexington

at the
Embassy Suites