State MATHCOUNTS Edition

KYBOELS Report

Also Inside:
- Professional Development Opportunity Information
- From the President’s Desk
- Engineering News From Across the State
- And More...
UK Associate Professor Dr. Sen-Ching (Samson) Cheung in the Department of Electrical and Computer Engineering and the Center for Visualization and Virtual Environments is deeply involved in the area of multimedia information analysis research. “I enjoy solving problems and developing new theories, working on new technology and future products,” Dr. Cheung explains. “But something like video surveillance does not impact me personally. At the end of the day, I can leave my research in the lab.”

A few years ago, something happened to Dr. Cheung that changed his perception towards his research. He and his wife discovered their son was autistic.

While investigating various autism therapies, they noticed one that involved autistic children watching videos of other children performing tasks they needed to learn for themselves. However, autistic children do not respond well to videos of others. They relate better to their own faces.

The question for Dr. Cheung became: How do you record a child doing something he or she has never actually done?

“That’s where engineers come in,” he says.

Working with UK pediatric professor Dr. Neelkamal Soares, autism expert Dr. Lisa Ruble and developmental psychologist Dr. Ramesh Bhatt, Dr. Cheung has submitted proposals for funding to develop a “virtual mirror” - where autistic children will see themselves performing daily living tasks on a large digital display.

“Developing something new that will help autistic children is incredibly rewarding for me. I am taking my background and expertise and connecting them to something I have a personal stake in seeing succeed. Not many professors get to come to work as personally invested in their research as I am.”

To learn more about Dr. Cheung’s research, visit: www.engr.uky.edu/research/
Stantec Senior Principal Presented with Professional Achievement Award

LOUISVILLE, KY (February 29, 2012) NYSE, TSX: STN

Stantec is pleased to announce, Louisville senior principal Stephen H. Bickel, PE, is the recipient of this year’s Kentucky Society of Professional Engineers (KSPE) Outstanding Achievement in Private Practice Award.

Bickel accepted the award at the 2012 KSPE Engineer’s Banquet held at The Henry Clay on Friday, February 24th, 2012. The banquet is an annual event which recognizes the top engineers for the local chapter, while simultaneously raising money to go towards scholarships for the University of Louisville engineering students.

The KSPE Outstanding Achievement in Private Practice award is given annually to a Kentucky engineer who exhibits strong professional integrity and has contributed consistently outstanding service for the professional, civil and technical interests of the engineering profession in the Commonwealth.

Bickel was recognized for his role in opening Stantec’s Louisville office 25 years ago and managing the operations for 20 years. In that time, the Louisville office has grown to employ 80 staff members, including 35 Professional Engineers, making it the second largest engineering consulting firm in Louisville as ranked by Business First early this month. Originally founded to focus on Geotechnical services, Stantec’s Louisville location now offers a variety of consulting services that include Water Resources, Environmental, GIS, Highways, and Aviation Planning and Design. Since opening the office, Bickel has led many of the area’s highly recognized engineering projects, including projects for the U.S. Army Corps of Engineers, FEMA, the Tennessee Valley Authority (TVA) and the Louisville/Jefferson County Metropolitan Sewer District.

********************************************
As my term as President is coming to a close, I take this opportunity to reflect on this past year and the past several years I have served KSPE. There is no way I could give back all that I have received from the society and engineering community over the years. The main reason for volunteering and serving on the board was to give back to a profession that has given so much to me, professionally and personally. I’m proud to say that I’m an alumnus of Leadership P.E., class of 2001/2002, a program that continues to be strong and supported by the engineering community with volunteers and continuing support of registrants. There is little chance that I would have pursued a leadership role at the state level without having gone through Leadership P.E.

We are fortunate that we belong to such a strong and active state society. There are many reasons why we continue to have an exceptional organization. The main reason begins with the staff at the Kentucky Engineering Center. George Binder, Marcie Fisher, Nancy Parker, and Jennifer Gatewood, are all tremendous assets to us all. This past year, throughout their “normal” hectic paced year, they have been changing over the database from NSPE to be controlled by our own organization. Meaning, all member information, additions, changes, and membership dues are being processed by our own staff. From where I was sitting, I didn’t see much more than a slight bump in the road getting that done, and that’s a tribute to the KEC staff. My main initiative for the year, the legislation initiative, was well accepted and the KEC staff took hold of the idea and helped promote the vision of “Putting a Stamp on Kentucky.”

KSPE is alive and active due to all who help and volunteer their time and talents to promoting the engineering profession here in KY. The state chapters are doing great as well. There is a lot of activity and involvement within the chapters which leads to our overall strength and stability. Let’s not take it for granted. We need to be prepared and in tune to our surrounding and the changes and challenges we have before us. Stay in contact with your representatives; get involved in your city and county governments. We can all continue to support and protect qualifications-based selection, encourage licensing of engineers, and support our educational efforts such as MATHCOUNTS, Governors Scholar, STEM, PLTW, and scholarship programs. These are all worthy issues and programs to promote. Incoming KSPE President, Eddie Mesta, kicked off his agenda at the annual convention of KSPE + 3. I believe his message and agenda will get people involved and help build a stronger organization. I plan on continuing to give my time and efforts back to KSPE in volunteering and serving where I feel I can make a difference. I hope you will do the same.

The annual convention was a success this past April and again it’s due to the staff, the annual convention committee, and volunteers who put it all together. The convention is a large part of our operating funds. Thank you all for making it a fun, productive, and successful event. On a side note; any pictures that are published of a person in a shaggy wig and sun glasses from the 70’s is not me, the pictures have obviously been re-created.

Thanks to all who have made this past year a success!
Distinguished Service Award – Clint R. Goodin, P.E., P.L.S.

Outstanding Contribution to Leadership PE – George M. Binder

Young Engineer of the Year – Justin M. Verst, P.E.

NSPE Fellows
Scott Wolf, P.E. & John Zoeller, P.E.

Outstanding Contribution to MATHCOUNTS
John Watson, P.E.

Want to be more productive with your CAD software?

Need hours for your education requirements?
Check out these classes offered through ACEC of Kentucky:

<table>
<thead>
<tr>
<th>MicroStation I</th>
<th>InRoads I</th>
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</thead>
<tbody>
<tr>
<td>MicroStation II</td>
<td>InRoads II</td>
</tr>
<tr>
<td>InRoads Survey</td>
<td>InRoads III</td>
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Call 502-695-5680 or visit www.kyengcenter.org
and select the Calendar to register or for details

Also visit www.civilCADconsultant.com
to register for our free Express TIPs newsletter!

CAD PRODUCTIVITY
VAUGHN & MELTON HIGHLIGHTS 45 YEARS OF CONTINUOUS GROWTH AND SATISFIED CUSTOMERS

MIDDLESBORO, KY – National Engineer’s Week (February 19 – 25, 2012) has a special significance for leading southeastern engineering and surveying services company Vaughn & Melton Consulting Engineers, Inc. It also marks the company’s forty-fifth year in business. Vaughn & Melton’s Middlesboro office is located at 109 South 24th Street.

Vaughn & Melton Consulting Engineers, Inc was founded in 1967 in Middlesboro, Kentucky by Robert W. Vaughn and Lewis N. Melton. They selected this small southeastern Kentucky town as it was an area vastly underserved in terms of engineering services.

The founder’s assessment of the market opportunity was correct and the new engineering company quickly flourished, more than doubling its size in the first three years. By the mid-1980’s the company expanded geographically adding offices in Greeneville, Tennessee and Asheville, North Carolina, and the number of professional, technical, administrative and clerical employees grew to more than 100. The subsequent addition of offices in Knoxville, Tennessee; Charlotte, North Carolina; and Spartanburg, South Carolina brought the company’s southeastern footprint to four states and six principal city offices. In 2009, the company moved the Greeneville location to Gray, Tennessee to better strengthen the firm’s presence and service offerings in the Tri-Cities region, including a market expansion into Southwest Virginia. In 2011, an additional office in Boone, North Carolina was also opened expanding our presence farther into Northwest North Carolina and Southern Virginia.

“We are very proud of our forty-five year track record and the completion of thousands of high-quality engineering and surveying projects for clients throughout the Southeast,” said Randolph J. Scott, company President and Chief Executive Officer.

Included among the local, regional and national clients Vaughn & Melton Consulting Engineers, Inc has served are the U. S. Department of Transportation’s Federal Highway Administration, U. S. Army Corp. of Engineers, Tennessee Valley Authority, Duke Energy, Kentucky Tourism Cabinet, the Departments of Transportation in Arkansas, Kentucky, Mississippi, North and South Carolina, Tennessee, Virginia and West Virginia, as well as dozens of city and county governmental agencies. One of the company’s most notable projects involved engineering services in support of the construction of the Cumberland Gap Tunnel located on the state borders of Kentucky, Tennessee and Virginia.

KYTC/ACEC-KY/FHWA PARTNERING CONFERENCE

_September 10-12, 2012_

Galt House Hotel
Louisville, KY

Kentucky Engineers’ Golf Classic

_Wednesday, September 19th
University Club of Kentucky - Lexington_
Executive Director’s Report

By: George M. Binder
KSPE / ACEC-KY / KEF
Executive Director

KSPE . . . more than just another membership!

Another “Administrative Year” for KSPE has come and gone --- another successful /interesting/ busy/ year. Thank you to Peter for his comments in the President’s Article. Peter has done a great job and been a real pleasure to work with this year. His Legislature Initiative was very good for the organization as well as the Engineering Profession – PLUS – it is a great example of a President using his term to stretch/grow himself and energize a needed organizational effort. Peter used his initiative to push himself into doing things he knew he wanted and needed to do. Great example of leadership!

The KSPE continues to be “alive & well” and that is a very good thing --- especially in the world of associations today. A major reason for the success of KSPE is the fact that KSPE Leadership, especially Presidents, view their role as “active custodians” of the organization. While new initiatives are needed and programs/goals/mission statements need to be reviewed – the “active custodian” sees to it that the survival and thriving of the Organization itself comes first. Needed changes and directions are woven into the fabric of the Organization not used to “re-invent” the Organization. Over the years, your KSPE Presidents have talked with each other and with staff about their roles, what they want to “champion”, how they want to function and the need for continuity. That has been a major strength of KSPE and continues to be.

That mentality is demonstrated each year at the Past-Presidents’ Breakfast held in conjunction with the KSPE Convention. From 12 to 20 Past Presidents gather at a breakfast for conversation, reminiscing, discussions with the incoming President and exchanging of ideas. Major programs have seen their beginning at this session; i.e. the Past-President’s Scholarship, the Leadership PE program. Your Engineering Profession recognizes and honors its past and that brings strength to its present and its future.

MEMBERSHIP

Beginning in November 2011 KSPE initiated the processes of offering both the “3-tier (Chapter/KSPE/NSPE)” and the “state option (Chapter/KSPE)” memberships. At the same time, KSPE assumed the responsibilities of the administration related to all memberships; database, communicating with members regarding invoice/renewal options, processing membership dues, etc. While there have been some trials, this process seems to be going well. We will know more when we have completed the complete cycle – October 2012. We solicit your input, reaction, evaluation and suggestions regarding this process. If you have renewed your membership since November, you have received a Membership Handbook, Certificate and letter. Your feedback on the merits/value of this information would also be helpful. FYI: the Membership Handbook is available on our web site.

An Enterprise Membership is also available for organizations with groups of engineers. Please contact us for additional information about the opportunities and savings by utilizing this option.

If you are not a member of KSPE – NSPE --- please take a look at the Membership Application on page 12. You can use that or go to the on-line option at https://m360.kyengcenter.org/frontend/portal/SignupOptions.aspx.

KSPE CONVENTION – 2012

As Peter said, the KSPE Convention was a success again this year thanks to all who invested their time and energy in the planning and production of the event. We had some great tours and over 50 seminar sessions. Thank you to all the presenters and the Leadership PE Class who moderated all of the sessions. Obviously the Convention Committee committed a tremendous effort to make it all come together. I also want to say thank you to Dennis and Sharon Smith for what they added to the Wednesday evening event and the President’s Dessert Reception. Dennis completed restoration of his 1966 Corvette just a few hours before he fired it up for the first time and brought it to the event at the Corvette Museum! Thank you, Dennis and Sharon. If you

The 1966 Corvette that was on display at the Wednesday Evening event, as well as the President’s Dessert Reception. Thanks Dennis & Sharon!
know them, you know Sharon had a lot to do with that car being ready for display. I’d also like to mention Scott Wolf. Scott is now the Consultant Services Program Manager for FHWA and had agreed to present a session since his plans were to be in Kentucky during the Convention. Changes in FHWA policies as well as other complications changed his plans – but he made the trip anyway in order to honor that commitment. Thank you, Scott. We also had the opportunity to present Scott and John Zoeller with their NSPE Fellows designation at the Convention. Congratulations to both of you!

On Thursday evening of the Convention, incoming KSPE President Eddie Mesta launched his “KSPE + 3” initiative. You will hear more about it throughout the year as Eddie seeks to encourage KSPE members to commit to at least 3 activities on behalf of the Engineering Profession and KSPE. You will see a “commitment card” on page 19. These were first distributed at the President's Party. You are being asked to identify at least 3 areas where you will commit to making a Plus for KSPE this year. You will hear more about this from Eddie in the Kentucky Engineer as well as at your KSPE Chapter meetings as he visits your Chapter. Like Peter's, this is another good initiative launched by a KSPE President seeking to encourage membership activity and to enhance the profession of Engineering.

The 14th Class of Leadership PE was graduated at the Convention! Another great class and great bunch of Engineers! This was yet another unique class, in many ways. This was the most prolific LPE Class in terms of babies --- “at least” 5 were born or announced during the year.

LEADERSHIP PE APPLICATIONS
Deadline June 30, 2012
Applications for the 15th Leadership PE Class are now available. The deadline for applications to be in to the KEC is June 30. Please consider, for yourself or encourage others, being part of the nearly 200 LPE Alumni now involved in the leadership of our Engineering organizations. For more information AND an application, go to our web site.

LEGISLATURE
This year's Legislative session(s) were fairly “uneventful” in terms of purely Engineering issues. However, that made it a really good session for Peter's initiative. Developing a relationship with your Senator and Representative is much easier when you do not have a contentious issue to put in the mix. If you have already developed that relationship, it is a lot easier to discuss those issues and easier for the legislator to understand those issues. So please continue to build those legislature relationships as we go through an election season and prepare for the next legislative session. For additional information, visit our web site.

Certainly one issue that will be on the agenda of the January 2013 Legislative Session will be the recommendations from the Governors Tax Reform Commission. That report is due to the Governor the 15th of November. For more information and to follow the Commissions work, go to our web site and link to the Commission's site.

NEW CAREER CENTER LAUNCHED
Just recently the Kentucky Engineering Center has launched a new “Career Center”. The KEC Career Center is focused on Kentucky engineering opportunities. Please make use of it if you are looking for good KY Engineers. You will see opportunities from some other states where our KSPE counterparts are also participating in this Career Center effort. Visit our web site and click on the Career Center – on both left and right side of the home page.

MATHCOUNTS
The feature of this issue of the Kentucky Engineer is the MATHCOUNTS program. Many of you are involved in this program; I would encourage all of you to read carefully the last paragraph of the MATHCOUNTS article. Jennifer has issued a well stated challenge for all of us. This year, thanks to Western Kentucky University, the Kentucky MATHCOUNTS program added 39 scholarships. Now in its 29th year, the program offers a total of 72 scholarships annually to Kentucky middle school students across the state! Special thanks to Marilyn Lewis and Darin Hensley for spearheading the effort to add the WKU scholarships. Enjoy the article and the photos and plan to be part of it next year.

Kentucky Engineers’ Golf Classic
Scheduled for Wednesday, September 19th – the Kentucky Engineers’ Golf Classic! Please mark your calendar and plan to be part of this very special event. If you are interested in being involved as a sponsor, at any level, please let us know asap.
Indiana - Continuing Professional Development Requirements
We continue to receive questions about the Indiana CPD requirements. CPD Sessions offered by KSPE/ACEC-KY should also meet the CPD requirements for Professional Engineers in Indiana. The Indiana law/regulations states that “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 requirements:
ACEC-IN has available on-line courses that meet these requirements. For more info and to register, go to this link: http://acecindiana.org/education/continuing-education/.

KYTC/ACEC-KY/FHWA PARTNERING CONFERENCE
The 17th Annual Partnering Conference is scheduled for September 10-11-12, 2012 at the Galt House in Louisville. The call for topics has just gone out. For additional information, please contact our office.

KEC STAFF – Marcie, Jennifer, Nancy
I would certainly be negligent if I did not say thank you and call the reader’s attention to the staff that make things happen here at KEC for KSPE, ACEC-KY and KEF. Marcie, Jennifer and Nancy not only do a great job for you, your organizations and your profession but they really care about what they are doing, about you, about your organizations and your profession. They demonstrate that in a lot of ways, some obvious and seen by many, some not so obvious but add that creativity, personal touch, and work ethic that makes things happen and run smoothly in the process. This has been a stressful year, dealing with a lot of change and uncertainty, but the products and the view from the outside has been consistent. Thank you very much, Marcie, Jennifer, Nancy, for the major roles you all play in the success of KEC and all that happens here.

Visit our web site – www.kyengcenter.org
Board Members
Governor Steven L. Beshear has appointed Jim Riney, PE, PLS and Mike Ritchie, PE, PLS to the Board. We welcome both gentlemen and look forward to working with them to protect the citizens of the Commonwealth of Kentucky and to advance the honored professions of engineering and surveying. We also want to thank outgoing Board members Steve Gardner, PE and Dennis Smith, PE, PLS for their service.

Computer Based Testing
At the August 2010 NCEES annual meeting, member boards voted to convert the FE and FS exams to computer based testing (CBT) from the traditional paper and pencil method. This vote followed an intensive study by a task force convened to research the issue. CBT will allow greater scheduling flexibility and enhanced exam security. The last paper and pencil FE and FS exams will be given in October 2013. CBT will begin in January 2014. Applicants will be able to take the test anytime during four testing windows throughout the year. They will also be able to take the exam at Pearson VUE testing centers with over 300 locations throughout the United States. Convenient testing centers for Kentucky applicants are located in Lexington KY, Louisville KY, Cincinnati OH, Evansville IN, Nashville TN, Knoxville TN, Johnson City TN, and Charleston WV.

The current plan is to also transition the PE and PS exams to CBT. No specific dates have been determined for these exams.

For further information, please visit http://cbt.ncees.org/

Historical Exam Pass Rates
Below are the pass rates for the national engineering and surveying exams since 2001:

<table>
<thead>
<tr>
<th>Year</th>
<th>PE Exams</th>
<th>Pass</th>
<th>Pass Rate</th>
<th>FE Exams</th>
<th>Pass</th>
<th>Pass Rate</th>
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<tr>
<td>2001</td>
<td>287</td>
<td>137</td>
<td>48%</td>
<td>319</td>
<td>235</td>
<td>74%</td>
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<tr>
<td>2002</td>
<td>286</td>
<td>138</td>
<td>48%</td>
<td>319</td>
<td>223</td>
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<tr>
<td>2003</td>
<td>297</td>
<td>142</td>
<td>48%</td>
<td>362</td>
<td>270</td>
<td>75%</td>
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<tr>
<th>Year</th>
<th>PS Exams</th>
<th>Pass</th>
<th>Pass Rate</th>
<th>FS Exams</th>
<th>Pass</th>
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<tr>
<td>2001</td>
<td>76</td>
<td>43</td>
<td>57%</td>
<td>105</td>
<td>34</td>
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<tr>
<td>2002</td>
<td>46</td>
<td>20</td>
<td>43%</td>
<td>93</td>
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<td>2003</td>
<td>53</td>
<td>23</td>
<td>43%</td>
<td>77</td>
<td>21</td>
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<td>2004</td>
<td>48</td>
<td>20</td>
<td>42%</td>
<td>77</td>
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<td>25</td>
<td>52%</td>
<td>83</td>
<td>33</td>
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<td>2008</td>
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<td>26</td>
<td>59%</td>
<td>71</td>
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<td>55%</td>
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<tr>
<td>2009</td>
<td>50</td>
<td>26</td>
<td>52%</td>
<td>55</td>
<td>32</td>
<td>58%</td>
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<tr>
<td>2010</td>
<td>34</td>
<td>20</td>
<td>59%</td>
<td>55</td>
<td>25</td>
<td>45%</td>
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<tr>
<td>2011</td>
<td>25</td>
<td>12</td>
<td>48%</td>
<td>72</td>
<td>32</td>
<td>44%</td>
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Calendar of Events
July 20
Board Meeting
Frankfort KY

August 10
Board Meeting
Frankfort KY

August 22-25
NCEES Annual Meeting
St. Louis MO

October 5
Board Meeting
Frankfort KY

Calendar of Events (contd)
October 26
PE, PS Exams
TBD

October 27
FE, FS Exams
TBD
ENFORCEMENT ACTIONS SUMMARY
For The Period
January 14, 2012 – April 6, 2012

CHAD WHITAKER
ALPHA OMEGA INNOVATIONS, LLC
In December 2010, the Board of Licensure received information that Chad Whitaker, a licensed Landscape Architect from Taylorsville, had engaged in the unlicensed practice of engineering in violation of KRS 322.020 and KRS 322.060, through his company Alpha Omega Innovations, LLC. It was determined that Mr. Whitaker had offered professional engineering and land surveying services through the company website and business letterhead. Mr. Whitaker is not licensed as a professional engineer or land surveyor and Alpha Omega Innovations, LLC is not a permitted engineering or land surveying business entity. Upon being contacted by the Board, Mr. Whitaker agreed to correct the website immediately and agreed to an injunction enjoining Mr. Whitaker from further unlicensed practice until he becomes licensed by the Board. The Agreed Injunction also prohibits Alpha Omega Innovations, LLC from offering or providing engineering or land surveying services until such time as it obtains the appropriate Business Entity Permit from the Board. No penalties were assessed for the current violations; however the Agreed Injunction calls for a fine of $2000 and seven (7) days in jail for Mr. Whitaker and a fine of $5000 for Alpha Omega Innovations, LLC for any future violation. The Agreed Injunction was entered in the Franklin Circuit Court on January 20, 2012.

ROBERT L. SMITH, PLS
LAND MANAGEMENT SERVICES
On January 13, 2012 Robert L. Smith, PLS of Russell Springs entered into a Consent Decree with the Board of Licensure in settlement of a disciplinary action. Among other things, the Consent Decree required that Mr. Smith apply for a Business Entity Permit for his firm, Land Management Services. Mr. Smith failed to file the application within the time specified. In accordance with the terms of the Consent Decree and after being notified of the default, Mr. Smith's professional land surveying license was suspended effective February 9, 2012. Mr. Smith subsequently filed the application and his license was restored to active status effective February 10, 2012.

KIM C. FINCH, PE
In February, 2012 the Board of Licensure filed formal disciplinary charges against Kim C. Finch, PE of Lexington for failing to respond to an audit of his Continuing Professional Development (CPD) credits. Prior to a hearing and by agreement of the parties, the matter was resolved through a Consent Decree wherein Mr. Finch acknowledged the violation and surrendered his professional engineering license. The Board accepted the Consent Decree on April 6, 2012.

ZANE C. ALEXANDER, PE, PLS
In November 2011, the Board of Licensure brought a formal disciplinary action against Zane Alexander, PE, PLS of Salt Lick; alleging that Mr. Alexander had aided and abetted the unlicensed practice of former licensed land surveyor Donald R. Roberts. Prior to a hearing and by agreement of the parties, the matter was settled through a Consent Decree in which Mr. Alexander acknowledged the violation and agreed to the following sanctions: (1) a $1000 fine, (2) suspension of his land surveyors license for 60 days, (3) completion of a class in the Standards of Practice within 6 months, and (4) completion of the New Mexico State University course in Surveying Ethics within 6 months. The Board approved the Consent Decree on April 6, 2012.

R. G. VANDERWEIL ENGINEERS, LLP
In November 2011, the Board of Licensure investigated an allegation that R.G. Vanderweil Engineers, LLP of Boston, Mass. provided engineering services to the University of Kentucky without first obtaining a Business Entity Permit. The matter was resolved by Consent Decree wherein the firm acknowledged the violation and agreed to pay a $1000 penalty. Additionally the firm agreed not to solicit or provide engineering services in Kentucky in the future without first obtaining the required permit. The Board accepted the Consent Decree on April 6, 2012.

DANIEL BLAIN CLICK, PE
Mr. Daniel Blain Click, PE, of Irvine, was disciplined for a failing to make up a deficiency in his Continuing Professional Development (CPD) credits within 180 days as required by 201 KAR 18:196. The case was settled by a Consent Decree wherein Mr. Click the violation and agreed to the following sanctions: (1) a $1000 fine, (2) submit proof of obtaining 30pdh of qualifying CPD credits to satisfy his obligation for calendar years 2009 and 2010 within 90 days, and (3) submit proof of obtaining an additional 30pdh of qualifying CPD credits to satisfy his obligation for calendar years 2011 and 2012 by not later than January 10, 2013. The Board accepted the Consent Decree on April 5, 2012.
### Part A - Member Information

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<th>LAST*</th>
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**Education Information**

- Undergraduate Degree: __________ Major: __________ College/University: __________ Graduation Date: ________
- Graduate Degree: __________ Major: __________ College/University: __________ Graduation Date: ________
- Local Chapter Requested: __________
- Member Who Encouraged You To Join: __________

(Find out what chapter to request by visiting the KSPE Chapters website under KSPE at http://www.kyengcenter.org)

### Part B - Membership Category - Choose Your Membership Category

- LICENCED MEMBER - I hold a valid license as a Professional Engineer in the US or Canada (or international equivalent)
- MEMBER - I am an EI/EIT, or graduate of an engineering program accredited by the Accreditation Board of Engineering and Technology (ABET) (or international equivalent)
- STUDENT MEMBER - Full Time Student in an ABET accredited undergraduate or in a junior college program anticipating enrollment in an ABET accredited engineer program. Current school and anticipated graduation date must be listed above.

### Part C - Membership Type - Choose Your Membership/Dues Level

- National (NSPE), KSPE & Local Chapter (Full NSPE Membership)
- KSPE & Local Chapter Only (Does not include NSPE Membership)

### Part D - First Year Dues - Choose Your Dues

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<td>First Year Dues</td>
<td>Engineer Member</td>
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<td>KSPE and Chapter</td>
<td>6 MONTHS FREE - $56.00</td>
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<td>NSPE + KSPE and Chapter</td>
<td>6 MONTHS FREE - $126.00</td>
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### Part E - Payment Method - Choose Your Payment Method

Check # ____________________ Credit Card __________ Visa __________ Mastercard __________ Discover __________ Bill Me __________

Cardholders Name: ____________________

Credit Card #: ____________________ Expiration Date: ____________________

Billing Address: ____________________

City/State/ZIP Code: ____________________

Note: The asterisks above indicate that information which is required.
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 - Charles S. Dale, PE
Bluegrass - Donald E. Horn, PE
Capital - Jason R. Littleton, PE
Cumberland Falls - None
Green River - David Topolenski, PE
Kentucky Lake - None
Kentucky River - Chuck Mullins, PE
Louisville - Justin Gray, PE
Mammoth Cave - Matthew H. Rogers, PE
My Old Kentucky Home - Henry Greenwell, PE, PLS
Northern Kentucky - Michelle Bollman, PE
Pine Mountain - Michael Jones, PE

State Directors
Ashland - Richard Howerton, PE, PLS
Big Sandy - Philip Elswick, PE
Bluegrass - Darin Hensley, PE
Capital - Marty Wolfe, PE
Cumberland Falls - Robert Zik, PE, PLS
Green River - Tony Huff, PE
Kentucky Lake - Bill Marcum, PE
Kentucky River - Danny Maggard, PE, PLS
Louisville - Kristen Crompton, PE
Mammoth Cave - Richard Tutt, PE
My Old Kentucky Home - Robert Bush, PE
Northern Kentucky - Brandon Raybourne, 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

Professional Development Opportunities
Check our Website: kyengcenter.org
2012 Schedule

June 2012
June 07
Spring Dendrology & Native Tree Identification - Bernheim Arboretum & Research Forest

June 12 - 15
Modeling in 3D with Microstation and InRoads - Kentucky Engineering Center

July 2012
July 10 - 13
Modeling in 3D with Microstation and InRoads - Kentucky Engineering Center

August 2012
August 07 - 10
InRoads III - Madisonville, Kentucky

September 2012
September 25 - 28
Microstation/InRoads TBD - Kentucky Engineering Center

October 2012
October 16 - 19
Microstation/InRoads TBD - Kentucky Engineering Center

November 2012
November 14 - 16
Microstation/InRoads TBD - Kentucky Engineering Center

December 2012
Date TBD
Basic Dendrology - Bernheim Arboretum & Research Forest

December 11 - 14
Microstation/InRoads TBD - Kentucky Engineering Center

Fall Seminars - Dates TBD
Mechanical/Electrical Seminar
Sewer Collection System Seminar
Bridge Engineering Seminar
Communications Seminar
Somerset, Kentucky Seminar
Bowling Green, Kentucky Seminar

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

http://www.kyengcenter.org
Phone: 502.695.5680
800.455.5573
Fax: 502.695.0738
KSPE | ACEC-KY | KEF

Applications for Leadership PE due June 30, 2012

Leadership P.E.

Kentucky Engineer's Golf Classic
Wednesday, September 19, 2012
University Club of Kentucky -Lexington

Leadership P.E.

Applications for Leadership PE due June 30, 2012

Leadership P.E.

Applications for Leadership PE due June 30, 2012

Leadership P.E.

Applications for Leadership PE due June 30, 2012

Leadership P.E.
SCHNEIDER RECEIVES PRESTIGIOUS SURVEYOR AWARD

Middlesboro Native Wins Industry Honor

During the 2012 KAPS conference banquet, John K. Schneider, PLS was honoured as Surveyor of the Year by President Don Pedigo, PLS. A Middlesboro, Kentucky native, John has been a KAPS member for over 20 years, joining immediately after receiving his Kentucky professional surveying license in 1990. After experiencing what an integral part of a surveyor’s career KAPS was, John made the decision to become more involved in the program in 1999 when he began his first of three separate terms as the Southeast Chapter Chair. Since then he has also served as Director, Conference Committee Chair, and currently he is serving as Vice President of Internal Affairs.

“Early in my career, I did not understand why I was being asked to give up an occasional Saturday or an evening to attend a KAPS meeting. Fortunately I was being mentored by some of the best professionals in the industry and they understood that professions change, industries change and these changes are being guided by those willing to participate. With time I understood that the issues addressed by KAPS impact my livelihood and touch the lives of everyone who carries the surveyor title. We can choose to be a part of the conversation or be left to live with the decisions.”

John is living proof that hard work, ability and professional growth go hand in hand. John began his surveying career in 1979 at age 17 with a summer job at Vaughn & Melton Consulting Engineers, Inc. Like most surveyors, his early years were spent either in the field, the drafting room or the courthouse gaining the required experience for licensure. Thirty-three years later John is serving as the vice-president of Vaughn & Melton’s Kentucky Region and as the Office Leader for the Middlesboro, KY office. John coordinates the daily efforts of the Kentucky region and utilizes his 30 plus years of experience as Principle-In-Charge on a wide range of surveying projects. In addition to KAPS, John supports his profession by serving on ACEC’s Council of Professional Surveyors (COPS) Steering Committee and Business Practices Committee.

John firmly believes that much of his professional growth is a direct result of his being given the opportunity to participate in KAPS and other...
Professional organizations. “Participating in professional organizations keeps you abreast of the latest technologies, provides a forum for discussion of the issues that contribute to the welfare of the surveying profession and allows you to learn from the best surveyors in the industry. I am honoured to have been selected as surveyor of the year and I challenge every employer to provide your staff the same opportunity provided me.”

More and more companies like Vaughn & Melton, realize that they can only benefit from their commitment to support professions, including surveying, by allowing employees like John the time off from work that is needed to play an active role in professional organizations like KAPS. In today’s world many firms are including professional organization involvement as an integral part of their mission statement, as an example Vaughn & Melton has a mission of “providing leadership and support to our region and to the various professions to which our staff members belong”. They, along with many others, are realizing the return on the investment in both their employees’ growth and the advancement of the profession in which they practice.

Although he doesn’t get out as much in the field as he used to, John still appreciates that one of the most unique aspects of surveying compared to many other jobs is the ability to spend a lot of time in the great outdoors. During the span of his career, John has been fortunate to be a part of surveying some of the most unique and beautiful land in Kentucky. Projects like the 120 mile “Pine Mountain State Scenic Trail”, Kentucky’s first linear state park, or the roughly 4,000 acre Wheeler Boone WMA and a 36 mile section of abandoned railroad right-of-way which will soon be Kentucky’s longest rails to trails project. It is gratifying for him to know that most of these wonderful properties have been acquired by the Commonwealth of Kentucky and thus are now available for enjoyment by everyone including our future generations.

John enjoys spending time with his beautiful wife Sheree, they are celebrating 33 years of marriage this year, and his two lovely daughters Andrea and Deborah. In his spare time John is an active volunteer working with his local church and other community service projects. As a juried member of the Southern Highlands Craft Guild, John also enjoys spending time in his woodworking shop.

Gresham, Smith and Partners Announces Staff Accreditation

Louisville, Ky. – February 8, 2012 – Gresham, Smith and Partners, a leading multi-disciplinary design and consulting firm for the built environment, is pleased to announce that Stuart Sparks, P.E., recently passed the examination to obtain his Professional Engineering license in the Commonwealth of Kentucky. Sparks, a traffic engineer in GS&P’s Transportation market, focuses on the Kentucky Transportation Cabinet, Louisville Metro Department of Transportation, Louisville Metro and private development projects. He has served as the Programs and Meetings Chairman for the Kentucky Society of Professional Engineers (KSPE) Louisville Chapter since 2009 and is the Secretary for the Kentucky Section of the Institute of Transportation Engineers (KYSITE). Sparks also serves as the Promotions Chairman for the 2012 Southern District/Great Lakes District Institute of Transportation Engineers (SOLUTE/GLDITE) Annual Meeting. He joined GS&P in 2007.
BA Engineers, Inc. Introduces Survey Services in Kentucky

Louisville, KY – BA Engineers, Inc., a Division of Bryant Associates, Inc., recently opened a Survey Department in Kentucky, led by Thomas V. Monin, PLS, Survey Manager. BA Engineers is a Kentucky Transportation Cabinet certified MBE/DBE and Veteran Owned Small Business (VOSB) with 35 years of experience delivering quality survey, engineering, and construction management services for public and private clients.

Tom is a Registered Professional Land Surveyor and has over 20 years of experience managing a wide range of survey projects in Kentucky. In addition, Tom is a retiree from the United States Air Force, serving 20 years in the Kentucky Air National Guard. “Tom has demonstrated significant technical and management skills over his career, and we are pleased to welcome Tom to the Bryant team,” Jeffrey Bryant, PE, CEO of BA Engineers said. “In his new position, Tom will be responsible for supervision and direction of the Department and will serve a key role in facilitating the firm’s development and growth.”

BA Engineers has extensive experience performing surveys for highway, road and bridge construction, utilities, wetlands, waterfront, flood studies, building construction, trails, parks, rail, subways, and airports. BA Engineers fields multiple survey crews with total stations and data collectors, utilizing the latest in equipment and software. Survey services include topographic, property line/right-of-way, track surveys, ALTA surveys, monitoring, construction layout, GPS, hydrographic/bathymetric surveys, aerial photogrammetrics (fixed wing and helicopter), as-built surveys, and control/location surveys.

Kentucky American Water Seeks Engineer

Primary Role: Responsible for project management, engineering design, bidding, and construction management, etc. on projects relating to various aspects of the business. Responsibilities may also include the technical supervision over consulting project engineers, technicians, CADD operators and/or Construction Inspectors.

For additional information contact:
Lorraine Cecil
Human Resources
Kentucky American Water
2300 Richmond Road
Lexington, KY 40502
O: (859)-268-6335
KSPE+3 Pledge Card

Please select a minimum of 3 activities that you will dedicate to your profession over the next 12 months.

**Membership**

☐ Recruit one new KSPE Member
☐ Serve on KSPE’s Membership Committee
☐ Actively participate in your KSPE Chapter

**Professional Development**

☐ Support KSPE’s Professional Development Program
☐ Attend KSPE Annual Meeting
☐ Attend Monthly KSPE Chapter Meetings
☐ Support Leadership PE Program

I commit that over the next 12 months I will promote and enhance my profession by dedicating my service to the activities indicated on this pledge card.

Name

Address

Phone Number and Email Address

**Legislative**

☐ Meet with your State Senator and Representative at Least Every Three Months

**Outreach**

☐ Assist in Chapter MATHCOUNTS Program
☐ Assist in State MATHCOUNTS Program
☐ Assist in Project Lead The Way
☐ Assist in Future Cities Program
☐ Visit a School to Promote Our Engineering Profession
☐ Mentor an Engineering Student
☐ Participate in Governor’s Scholars Program

**Additional Opportunities**

☐ Volunteer to help with tasks at the Kentucky Engineering Center

☐ ____________________________________________

☐ ____________________________________________
Jenkins joins Hanson in Frankfort Office

FRANKFORT, Ky. — Melissa Jenkins, P.E., has joined Hanson Professional Services Inc.'s Frankfort, Ky., office as a project engineer serving the company’s aviation market.

She currently is working to further the expansion of Hanson's aviation practice in Kentucky, and she is assisting with the Kentucky Statewide Airport Pavement Maintenance Survey project for the Kentucky Department of Aviation.

She previously worked as a project manager and engineer for various projects, including the Blue Grass Airport runway in Lexington, Ky.

Jenkins has a bachelor's degree in civil engineering from the University of Kentucky in Lexington. She is a member of the Kentucky Aviation Association and the American Society of Highway Engineers (ASHE).
Those mathletes that participate in the Kentucky MATHCOUNTS program never cease to amaze us. The intelligence, effort, and hard work all of these kids put forth every year is astonishing and absolutely refreshing. It has been a great year for MATHCOUNTS in Kentucky, with new scholarships being offered by Western Kentucky University within the chapters.

Western Kentucky University offered up three scholarships for each of our thirteen chapters. WKU will provide the following:

- A full, four-year instate tuition scholarship to the first place individual at each of the chapter competitions, and

- A four-year $1,000 scholarship to the second highest scoring individual at each of the chapter competitions, and

- A four-year $500 scholarship to the third place high score at each of the chapter competitions.

This year the State competition comprised of 147 Mathletes was held in Louisville, Kentucky at the Galt House Hotel on March 31, 2012. Kids began arriving for the competition on Friday, March 30th and had the opportunity to take their coaches and parents to explore the Louisville Science Center. Saturday morning those mathletes in attendance got down to business with calculators in hand, completing their sprint round (a series of 30 questions), target rounds and team rounds in hopes of being one of the four to make the Kentucky State MATHCOUNTS National team.

Those who placed in our top ten at the state competition were (in order, first place to tenth place): Yue Zhang from Meyzeek Middle School, Kathleen Yang from Winburn Middle School, Shavan Ravishankar from Noe Middle School, Yuhan Long from Meyzeek Middle School, Angeline He from Lexington Traditional Magnet School, John Wang from Kentucky Country Day, Theodore Livas from Winburn Middle School, Emily Liu from Meyzeek Middle School, Mukund Venkatakrishnan from Noe Middle School, and Michael Pearson from Meyzeek Middle School. A big congratulations and job well done to all of these students for their hard work and dedication – we are so proud to have you as part of our MATHCOUNTS program!

Our top ten schools from this year’s state competition were (in order, first place to tenth place): Meyzeek Middle School coached by Greg Moore, Winburn Middle School coached by Dan Jenkins, Noe Middle School coached by Stephanie Fields, Russell Independent School coached by John Vanhoose, Kentucky Country Day coached by Ann.
Ponniah, Lexington Traditional Magnet School coached by Brian Keith Durham, Gayle H Gray Middle School coached by Roseanna Koehler, Campbell County Middle School coached by Faye Smith, Johnson County Middle School coached by Pam Burton, and West Jessamine Middle School coached by Karen Dixon.

The Kentucky State National MATHCOUNTS team was coached by Coach Greg Moore of Meyzeek Middle School. Mr. Moore has actually coached the Kentucky State National MATHCOUNTS team at Nationals the last four years. We had two returning members this year, Yue Zhang and Kathleen Yang, as well as two new members, Shravan Ravishankar and Yuhan Long. The Kentucky State National MATHCOUNTS team placed 24th as a team at this year’s competition. Congratulations team and you represented Kentucky well! Three of the four kids also placed in the top 100 overall – great job!

This year represents the second year Yue Zhang, an 8th grader from Meyzeek Middle School in Louisville, has made it to the Kentucky State National Team. He placed 28th overall at the National Competition. Yue has been competing in MATHCOUNTS since 6th grade. Outside of math, Yue enjoys chess, violin, science, quick recall and spelling. He plays violin as a hobby, plays chess in tournaments and competes in various spelling competitions, winning at his school three times, winning regionals twice and coming in fourth at the state level last year. Yue is undecided on his college experience at this point but says he would like to go into the fields of science and math.

Kathleen Yang, an 8th grader from Winburn Middle School, returns for the third year in a row representing Kentucky on the National Team. At Nationals, Kathleen placed 44th overall at the National Competition. Outside of math, Kathleen enjoys reading and writing. Kathleen would like to go to Caltech or MIT for her college career for their reputations as major engineering colleges, to major in computer engineering. She enjoys math because she likes seeing how a complicated problem unravels to a simple solution.

Shravan Ravishankar, an 8th grader from Noe Middle School, joined the Kentucky State National MATHCOUNTS team this year. Shravan said, “My favorite experience with MATHCOUNTS is undoubtedly when I won third at state. I am really glad that I get the opportunity to go to Nationals.” Outside of math, Shravan enjoys geography and even placed 2nd...
in this year's Kentucky State Geography Bee. He enjoys the countdown round during the MATHCOUNTS competition because he says, “You get to think on the spot and get to compete directly with others.” Shravan placed 64th overall at the National Competition.

Yuhan Long, an 8th grader from Meyzeek Middle School, joined the Kentucky State National MATHCOUNTS team this year. His favorite experience with MATHCOUNTs was getting 1st in the team round, 2nd in the countdown round, and 3rd individual at the Louisville Chapter. He said, “1, 2, 3.” When asked, “Why does math interest you?” Yuhan responded with, “It’s easier than Language Arts.” Yuhan would like to attend college at the University of Kentucky to study chemistry. In regards to summarizing his MATHCOUNTS experience, he said, “Very nerve wracking. Funny at times, boring at other, a nerve wracking test.”

What a great group of kids we had this year representing Kentucky. They all did a wonderful job, as did all of those Mathletes that competed at the state level, the competition was tough and you all did great! We hope to see those of you who can compete again, back next year and representing Kentucky just as well as you did this year.

It is always a pleasure to see such dedicated, talented young people show off their intelligence the way these kids do! They are extremely impressive. Every single person should really consider being a part of it, whether they volunteer at the state or chapter competitions, make a donation to the program to ensure the competition can continue on, or come watch the state countdown round. These kids will make a difference in the future and you can help them – can you imagine that?
Leadership P.E. is a leadership development program designed to encourage, strengthen and build the professional careers and the civic involvement of entry- and mid- to upper-level engineers. This will be accomplished through organized career-training sessions and networking with business and community contacts and peers, as well as interactive meetings with community decision makers. It will involve a cross-section of leaders or potential leaders who are active in business, education, the arts, religion, government, community-based organizations and ethnic and minority groups. It will reflect the diversity of the professional engineering community. This unique and positive image- and career-building program is design specifically to benefit persons in the engineering profession. Participation in Leadership P.E. is limited to a maximum of fifteen individuals. Participants must be either EITs or PEs. They will be selected to participate in eight specially designed leadership experiences over an eight-month period. The charter class was selected in the summer of 1998.Leadership P.E. follows the concepts developed by Leadership KY and other similar leadership programs. Leadership P.E. is the first of its kind to focus on professional engineers. As such, Leadership P.E. was designed, organized and implemented by members of the Kentucky Society of Professional Engineers (KSPE), the American Council of Engineering Companies of Kentucky (ACEC-KY) and the Kentuckiana Post of the Society of American Military Engineers (KP-SAME).