

NSPE-KY

Kentucky ENGINEER
Volume 64

Winter
20
22

KENTUCKY ENGINEER

A portrait of a man with short brown hair, smiling, wearing a dark blue suit jacket, a white shirt, and a yellow tie. The background is a soft, out-of-focus grey.

**2022 Engineering
Excellence Awards**

page 6

**Congratulate 2022 New
Professional Engineer
of the Year Dylan Ward**

page 18



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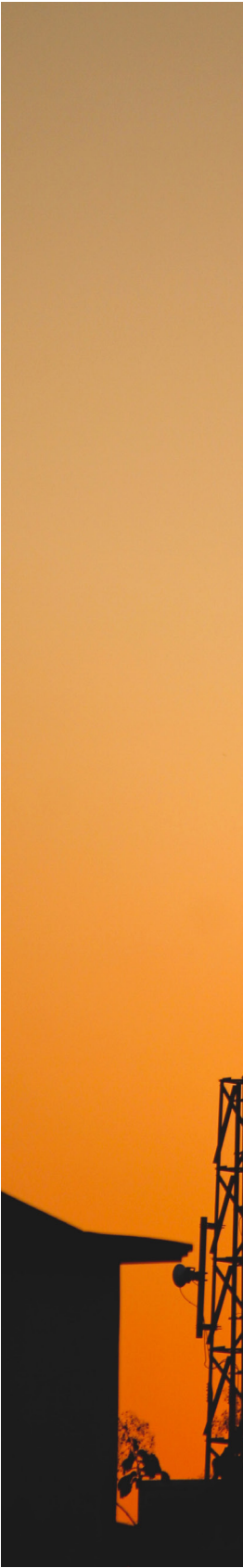
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Magazine design by Hayley Robb
Cover by John Bailey Jr., John Bailey Photography

President's Statement

Lora Boller, PE

Sorry Bengals fans, but it was still a good game! I'm not sure I could hang upside down as long as 50 Cent did without passing out. Beyond that, I hope everyone had a wonderful holiday season and have come into 2022 with a positive outlook.

NPEOY

A round of applause for Dylan Ward, PE for being selected as the NSPE-KY New Professional Engineer of the Year! See the article on [page 18](#) for more details. Dylan is a great asset to the Green River Chapter and to our state society. I was honored to nominate him for NPEOY at the National level. Wish him luck!

PROFESSIONAL DEVELOPMENT

Annual Bridge Day was completed with all its typical glory (outside of some hybrid virtual meeting challenges that we've all come to know and love) and it was great to see so many of my colleagues in person. NSPE has a new list of 15 free webinars listed on their website. Don't forget to save the date for the NSPE-KY Annual Convention!

20 July 20-22: NSPE-KY Annual Convention

MATHCOUNTS

Virtual Chapter Competitions were held on February 17 and included nearly 500 middle school students across our 13 chapters. The winners will move on to the State Competition on March 26 on the Western Kentucky University campus in Bowling Green. If you're able to volunteer that day, please contact the Kentucky Engineering Center to get signed up.



WOMEN AND GIRLS IN ENGINEERING

Women make up nearly half of the general workforce, but still only account for 15% of engineers.

As NSPE continues to make strides in Diversity, Equity, and Inclusion, it will take all of us to encourage girls at a young age to consider STEM as a favorite subject, interest, or career path.

The gender stereotype against girls in STEM starts in grade school where 63% of elementary students believe that girls are less interested in STEM subjects than boys are. STEM at that level is not about solving tons of math problems, wanting to dissect worms, or even take apart a cell phone.

Early on, STEM engagement is through problem solving and comes in the form of building block sets, video games, and puzzles.

We can support all our children and the advancement of our career by sharing how engineering makes a difference in our everyday lives and requires creativity and teamwork. Every day is a day to support women's and girls' interest and advancement in science, technology, engineering, and math. On the next page, you'll find a few key dates to get involved this year.

Save the dates for these important women's events:

8 March 8: International Women's Day

23 June 23: International Women in Engineering Day

NSPE-KY UPDATE

The third of our on-going goals to cover in this Winter issue is the Professional Development goal. The priority portion of this goal is to reinvigorate the Leadership PE program.

The goal champion and our Vice President, Wes Sydnor, has conducted meetings with the session leaders to coordinate and provide a better product to our future LPE participants.

Leadership PE is well underway this year and has remained a model program for other states and a beneficial experience to all its participants. This goal also includes expansion of virtual offerings and the possibility of developing a virtual library of on-demand training resources. The potential to use the training center computers at the Engineering Center for hosting remote virtual training seminars is also being considered.

If you or your business has professional development needs that you think may be similar with those of other companies, please consider KEC as a possible host and contact us to discuss options.

Thank you all for your support of NSPE-KY. Please continue to find ways to volunteer and help each other.

We serve to protect the public welfare and that includes encouraging and mentoring our colleagues. Encourage a child to love problem solving and bring a young engineer with you to the next meeting!

Lora Boller, P.E.

Women engineers account for only **15%** of the profession.

Female engineers earn less than **10%** male engineers.

63% of kids believe girls are less interested in STEM than boys.



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2022 Engineering Excellence Awards

Grand Conceptor Award MICHAEL BAKER INTERNATIONAL Brent Spence Bridge Fire & Rehabilitation

On Nov. 11, 2020, a truck accident and fire erupted on the Brent Spence Bridge, which carries I-71 and I-75 across the Ohio River between Covington, Kentucky, and Cincinnati, Ohio, damaging the bridge's floor system steel, drainage, deck, barriers and electrical components and the lower deck's overlay. Michael Baker International worked alongside KYTC to perform an emergency inspection to determine the extent of the damage and safely return the bridge to service.

GRAND AWARD



HERITAGE ENGINEERING Portland CSO Basin

The Portland CSO Basin Project is a 9.0 million-gallon (MG) underground combined sewer storage basin located in Louisville, Kentucky, immediately adjacent to a USACE flood levee in a public park (Lannan Memorial Park) owned by the city of Louisville. In a typical year, the basin prevents 179 MG of combined sewer overflow from discharging into the Ohio River and helps improve water quality and support safe, clean waterways.

GRAND AWARD



STANTEC CONSULTING SERVICES INC.

Greyline Station Stormwater Improvements & Rainwater Harvesting System

Built in 1928, Greyline Station provides incubator space for small businesses, demonstrating how the community can grow through equitable access. For years, the structure had been impacted by stormwater runoff. To redevelop the site sustainably, the Ecogro/Ridgewater/Stantec team was engaged to plan, design and build a stormwater retention and rainwater harvesting system.

HONOREE



Pipeline Route Through Sadlersville, Tennessee

MCGHEE ENGINEERING, INC.

Springfield, Tennessee Water Supply Project

Springfield, Tennessee Water Supply Project provides a supplemental potable water supply to Springfield, Tennessee from the Logan Todd Regional Water Commission in Guthrie, Kentucky. The project involved construction of a dedicated high-service pumping station at the LTRWC water treatment plant in Guthrie, 20 miles of 24-inch water transmission main from the plant to connect with the Springfield system.

HONOREE



HDR

Blue Grass Airport Runway 4-22 Rehabilitation

Blue Grass Airport is the primary airport for central and eastern Kentucky and the only commercial service runway in Lexington. As the number of travelers continued to grow over the past several years, airport officials saw the need for infrastructure upgrades. Blue Grass Airport engaged a consultant team, led by HDR, to develop airfield improvements including several grading and safety enhancements during a planned pavement rehabilitation for Runway 4-22.

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#PROUDPE SPOTLIGHT

NSPE is encouraging its state chapters and individual members to share why their proud to be a PE, so we're doing the same! Here's why NSPE-KY's Chris Pavese is a #ProudPE.

Q&A

SIX QUESTIONS WITH CHRIS



CHRIS PAVESE
Sr. Integrity Program Manager
Duke Energy
Cincinnati, Ohio

1 Why did you decide to become a PE?

I was working on a large government project in the Northwest as an electrical wireman when my foreman planted the engineering seed. A few years later, I walked away from the trades to take on some student loan debt to pursue electrical engineering. Passing the PE was a necessity to earn enough to pay off the student loans.

2 Why is PE licensure so important to you?

The PE licensure, in my mind, is just as important as any other licensure.

Beyond the enforcement that helps to mandate competence, there is public trust in the licensing process that unqualified individuals are not licensed to practice. Just like I don't want an unlicensed doctor performing my surgery, I don't want an unlicensed engineer designing my system; in both cases my life is depending on a professional.

3 Why did you join NSPE-KY?

I chose to join after my manager invited me to come to a Chapter hosted Lunch 'n Learn. I'd been involved in civic organizations before and appreciated the professionalism and the networking ability NSPE-KY provides.

4 How do you commit to protecting the public health, safety, and welfare of others on a daily basis?

My commitment to protecting John Q. Public is in my job description and it runs even deeper than that; I genuinely care for the well-being of others and will be the first to stop a job if I see a safety issue.

At work or out in public, I have called companies when I've seen reckless behavior (driving, job site, etc.), which includes reminding a dock worker on a man lift working beside our cruise ship upon arrival back to the Port of Miami to attach his fall-restraint lanyard to the basket while I was observing their operations from our stateroom balcony. While I was on vacation, safety was not!

5 How has NSPE-KY helped you in your career?

I have been fortunate to be able to participate in a variety of leadership positions with in the NSPE-KY organization and along the way have built an extensive network of fellow engineers and surveyors. I hope to continue my leadership career within NSPE-KY and build upon my network.



FAVORITE HOBBY

I have a few hobbies, but none I enjoy more than flying my single engine private plane. Ever since we haven't been able to itemize work travel as a deduction, I've been volunteering to fly rescue missions all over the U.S.; typically east of the Mississippi River, but Missouri has not been out of range.



FAVORITE RESTAURANT

For a foodies, this is a very hard question, but hands-down: La Spada in Florence, Italy.



FAVORITE BAND

While Pentatonix, Garth Brooks and Little Big Town are some of my favorites, to answer the question: Nickelback. We were able to see them perform in Rupp Arena and the acoustics were so overwhelming I thought my heart was going to start matching the beat of the kick drum as the shock waves went through me.



6 Best engineering memory you have?

Is there a project that had the most impact? Generally, in the Midwest, one wouldn't think there is a lack of space. So, the best engineering memory I have is of an Ah-ha! moment when we were trying to look at redesigning a substation at a water lifting station in Northern Kentucky, where we were limited on space.

With the redesign, we were upgrading the electrical service, changing the voltage classification (which required greater clearances) and taking into account the new codes and standards that required additional constraints on the footprint.

When I had thought we were facing the impossible, an engineer senior to myself told me to consider the third dimension. I'd never seen a stacked substation and am now proud to have been a part of a team that wasn't afraid of an impossible task.

“Just like I don't want an **unlicensed doctor** performing my surgery, I don't want an **unlicensed engineer** designing my system. In both cases, **my life is depending on a professional.**”

Board of Licensure Report

Kyle Elliott, Executive Director



Michael W. McGhee, PE

BOARD MEMBER UPDATES

On January 1, 2022, Governor Beshear appointed Mr. Michael W. McGhee, PE to the Kentucky State Board of Licensure for Professional Engineers and Land Surveyors to replace Cole Mitcham, PE, whose term had expired. Mr. McGhee graduated from the University of Kentucky with a bachelor of science in civil engineering. He went on to receive his masters of business administration from the University of Houston. Mr. McGhee has been a licensed engineer in Kentucky since 1985, and owns and operates McGhee Engineering in Guthrie, Kentucky.



Joshua S. Calico, PLS

Also on January 1, 2022, Governor Beshear appointed Mr. Joshua S. Calico, PLS to the Kentucky State Board of Licensure for Professional Engineers and Land Surveyors to replace James Bertram, PLS, whose term had expired. Mr. Calico is also a graduate of the University of Kentucky with a bachelor of science in civil engineering. Mr. Calico has been a licensed professional land surveyor in Kentucky since 2011, and holds his Kentucky EIT certificate. Mr. Calico owns and operates Joshua Calico Land Surveying in Lexington, Kentucky.



Nicole R. Galavotti, PE

Finally, on January 1, 2022, Governor Beshear reappointed Ms. Nicole R. Galavotti, PE to her second term on the Board of Licensure. Ms. Galavotti was originally appointed to the Board on September 7, 2018. Her current term expires on January 1, 2026. Ms. Galavotti is a graduate of the State University of New York College of Environmental Science and

Forestry at Syracuse University. She is the Vice-President of Shield Environmental Associates, Inc. in Lexington, Kentucky.

The Board of Licensure welcomes Mr. McGhee and Mr. Calico to these new appointments and thanks departing members Mr. Mitcham and Mr. Bertram for their service to the citizens of the Commonwealth and to their professions.

2022 BOARD OF LICENSURE OFFICERS

Officer elections were held at the January 28, 2022 board meeting.

The following slate of officers was elected unanimously:

- ▶ Nicole Galavotti, PE – Chair
- ▶ Chris Gephart, PLS – Vice Chair
- ▶ Ryan Griffith, PE – Secretary/Treasurer

The following will serve as 2022 committee chairs:

- ▶ Ryan Griffith, PE – Chair of the Engineering Committee
- ▶ Chris Gephart, PLS – Chair of the Surveying Committee
- ▶ Don Pedigo, PLS – Chair of the Continuing Professional Development Committee

Congratulations and thanks to all for their service!

FIRM RENEWALS

All unexpired Firm Permits expired on December 31, 2021. Businesses with expired firm permits are prohibited from offering or providing engineering or land surveying services.

31 December 31: All Firm Permits expire

The online firm renewal system is still open, and firm permits can be renewed online at: kyboels.ky.gov/Renewals/Pages/default.aspx.

Please be sure to select Online Firm Renewal for firm permit renewal and not Online Individual Renewal. The firm will be assessed a late renewal penalty.

INDIVIDUAL RENEWALS

Beginning on April 1, 2022, individual license renewals will open up on the Board's website. On June 30, 2022, all licenses will expire for individuals

whose last name begins with the letter L – Z. Licenses expire on June 30, 2022.

30 June 30: All licenses will expire for individuals whose last name begins with L – Z

On or around April 1, all individuals whose license expires this year will receive an email reminder from the General Government Cabinet (the Board of Licensure is part of the General Government Cabinet) through GovDelivery. Paper renewal notices will be mailed out in late May.

NOW HIRING: BOARD INVESTIGATOR

The Kentucky Board of Licensure is currently seeking a licensed Professional Land Surveyor or Professional Engineer to serve as a full-time Board investigator. Anyone interested in the position may contact Heather Baldwin, Director of Enforcement, at the Board offices.

Calendar of Events 2022

APRIL

April 21-23: NCEES Southern/Central Zone Meeting | Oklahoma City
April 22-23: NCEES Exam Administration (Structural) | Various locations
April 28: Board Committee Meetings | Frankfort
April 29: Board of Licensure Meeting | Frankfort

JULY

July 28: Board Committee Meetings | Frankfort
July 29: Board of Licensure Meeting | Frankfort

AUGUST

August 23-26: NCEES Annual Meeting | Carlsbad, CA

OCTOBER

October 21-22: NCEES Exam Administration (Structural) | Various locations
October 27: Board Committee Meetings | Frankfort
October 28: Board of Licensure Meeting | Frankfort

Enforcement Actions Summary

October 1 – December 31, 2021

Heather L. Baldwin, PE, PLS, Director of Enforcement

GARY DOUGLAS OUSLEY, PE #14529, PLS #2912

In March 2019, the Board of Licensure received a written complaint from a landowner regarding a survey performed by Alchemy Engineering Associates and certified by Gary D. Ousley, PE, PLS, in 2007. The landowner purchased property in Menifee County in November 2016 and found that the Alchemy survey of the adjacent property overlapped a previous survey of his property that was conducted in 1989. The Board investigated that complaint and found that two plats of survey that were prepared by Alchemy and certified by Ousley and four written descriptions that were prepared by Ousley for the adjacent property were significantly deficient in adherence to the minimum standards set out in 201 KAR 18:150. The investigation also found that Ousley gave dishonest testimony during a deposition for a boundary dispute case involving the complainant and Ousley's client, in violation of 201 KAR 18:142, Section 3, and found that an unlicensed employee of Alchemy actually did the work on the project without any supervision from Ousley, in violation of 201 KAR 18:142, Section 8. Furthermore, during the course of the investigation, a Continuing Professional Development (CPD) audit revealed that Ousley had not taken the required Standards of Practice / Ethics / Code of Conduct course for almost eight years, in violation of 201 KAR 18: 192, Section 3 (2). Ousley entered into a Consent Decree with the Board wherein he acknowledged the violations and agreed to: (1) pay an administrative fine of \$3,000 within ninety days; (2) have his professional land surveying license suspended for one year; (3) complete the online 60-hour Texas Tech engineering ethics course within six months; (4) submit proof of his CPD obligations for both engineering and land surveying for the 2020/2021 reporting period within thirty days and for the 2022/2023 reporting period by January 10, 2024; and (5) have his professional land surveying license placed on probation for the two years following the reinstatement of his license with quarterly project reviews. The Board of Licensure approved this Consent Decree on January 28, 2022.

MICHAEL A. MILLIGAN

On July 30, 2021, Michael A. Milligan, PE, entered into a Consent Decree with the Board of Licensure due to his failure to respond to a Continuing Professional Development (CPD) audit, and for his failure to take the required 30 professional development hours (pdh) of CPD activities during the 2018/2019 reporting period. Among other terms, the Consent Decree called for Milligan to obtain 30 pdh of qualifying CPD activities to satisfy the requirements of the 2018/2019 reporting period and submit documentation to the Board by October 1, 2021. Milligan failed meet this term of the Consent Decree. He was then notified that he was in default of the Consent Decree and that he had ten days to cure the default or his professional engineering license would be Suspended. Michael A. Milligan's professional engineering license was Suspended on October 12, 2021.

MICHAEL A. MILLIGAN

On July 30, 2021, Michael A. Milligan, PE, entered into a Consent Decree with the Board of Licensure due to his failure to respond to a Continuing Professional Development (CPD) audit, and for his failure to take the required 30 professional development hours (pdh) of CPD during the 2018/2019 reporting period. Among other terms, the Consent Decree called for Milligan to obtain 30 pdh of qualifying CPD activities to satisfy the requirements of the 2018/2019 reporting period and submit documentation to the Board by October 1, 2021. Milligan failed to meet this term of the Consent Decree, and after the ten day notification period, his professional engineering license was Suspended on October 12, 2021. Milligan was also notified at this time that he had thirty days to cure the default or his professional engineering license would be Revoked. A notification of default and revocation was sent on November 15, 2021, and Mr. Milligan was given ten days to cure the default. Michael A. Milligan's professional engineering license was Revoked on November 29, 2021.

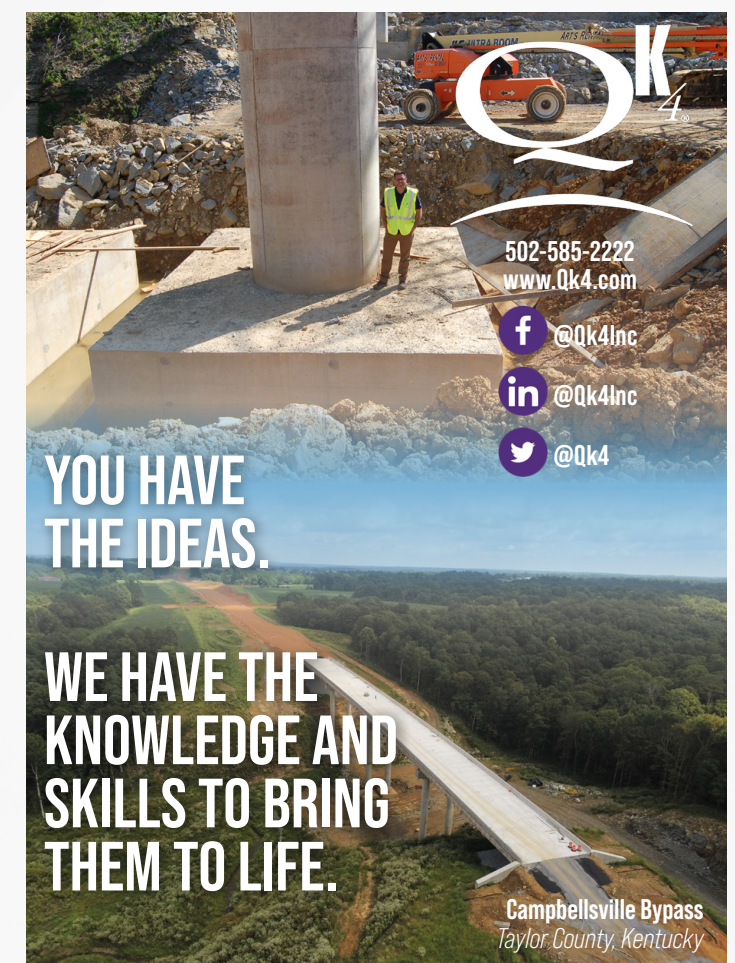


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Professional Engineer of the Year: Dylan Ward

Story by Hayley Robb



An attraction, once known as the Player's Club, was privately owned and a previously abandoned 18-hole golf course. It was situated in one of Henderson's newest neighborhoods, costing the city approximately \$250,000 a year and property values to plummet.

To address the situation, Henderson's city engineer introduced a new management model, a public-private partnership, which restored the property and provided the community with a regional asset, one that is now used annually to host a golf scramble to benefit the area's local MATHCOUNTS competition.

"My approach has always been any work that I do, I want it to be a tie-in point for whoever comes after me," said Dylan Ward, Henderson city engineer and this year's Professional Engineer of the Year. "So, anything I do is sustainable and will last 20, 30, 40, 50 years and not be something that needs to be replaced down the road."

Whether it's in his role as soccer coach, youth leader or city engineer restoring old golf courses, Ward is committed to trying new solutions and improving the lives of his fellow residents, neighbors, family members and friends. In every hat he wears, he finds a way to make an impact.

COMBINING PASSIONS

Ward never really knew what he wanted to pursue in college.

He considered the health field and becoming a doctor or a pharmacist early on but had several people in his life pushing him toward engineering. He'd always enjoyed math and science and liked the variety that civil engineering offered him.

Ward graduated from Western Kentucky University and had three job offers before he left Bowling Green.

He knew from previous internships he didn't want to go the sole consulting route. So, he based the decision off what he thought he would enjoy the

Left: Dylan and his family summit Mount Rainier in Washington.

most and ended up at the city of Henderson, where he's been ever since.

“For me, the most important thing in choosing a job when I graduated was choosing a job that I thought that I would enjoy and not feel like work,” Ward said.

COMMITTED TO COMMUNITY

Ward was heavily involved during his time at WKU. He was a member and eventually president of Phi Gamma Fraternity (“FIJI”), a Spirit Master for the university and an official ambassador for the school of engineering.

What he found he loved most during his time in college beyond his engineering classes was the administrative tasks he got to do outside the classroom like leading fundraisers for his fraternity or volunteering at events.

What he didn't know until joining the city of Henderson was administration could be a job too, ultimately driving him to pursue his master's in public administration at WKU-Owensboro.

“I remember saying in college, if I can do something that could partner that side of things with the engineering side, that would be great, and that's what I found ultimately with public administration,” Ward said.

Outside of public administration, Ward has still found a way to stretch his involvement outside of his career.



Dylan and his team lead a site tour (left). Dylan smiles with his wife, Hannah, and daughter, Lindleigh (right).

He currently serves as the president of NSPE-KY Green River Chapter, reviving it after years of inactivity and helping create an annual golf scramble to fund the local MATHCOUNTS competition each year.

He also serves as a head soccer coach for Owensboro United, a boys' travel soccer team and is an active member and mentor at his church, helping young people learn life skills in a positive environment.

“Dylan's actions over the past eight years explicitly show the dedication and commitment to the profession,” said William “Buzzy” Newman, Henderson City Manager. “He is unlike any engineer that I have worked with in regards to education and advancement in the field. No matter where he lands in the future, he will be an excellent representative of the profession.”

A SECOND CALLING

Philanthropy, community and a commitment to the next generation has been a thread throughout Ward's professional and personal life.

Since college, and through his church, he and his family have been active in giving back. They host frequent small groups for young families, provided temporary housing in east Africa last year and have recently made the decision to pursue full-time

mission work in El Salvador within the next two years.

Ward and his wife were approached by a family from their church actively serving in El Salvador. The opportunity would allow Ward to serve the local community using his background in engineering, public administration and his love for soccer.

During two short-term visits to El Salvador in 2021, Ward was able to inquire about the biggest needs in the community. At the top of list—running water.

A lot of the houses in the community get their water supply from wells. The only problem is that the surrounding water is either saltwater or contaminated groundwater.

Ward hopes to provide residents with essential drinking water, but also hopes to take it a step further in creating a micro water utility to distribute water throughout the community.

There's also a need for a bridge to connect two nearby communities, who are completely cut off from one another during wet season. For half the year, community members can't get to one another

or reach the doctor on one island or the pharmacist on the other.

With this work, Ward could install a bridge that connects people to necessary medication or family members.

“You know I'm not the kind of person who's going to know how to do any of that on my own,” Ward said. “But as a project manager, most of the projects I've gotten into over my lifetime I don't know how to do, but I know how to walk them through the process. I know the people to contact to help me.”

Between building bridges and water utility systems, Ward will also be using his passion for soccer to start a league for at-risk youth aimed at keeping young people out of organized gangs and building a community of their own.

“I think it's going to be a great environment and atmosphere for me to combine really all of my passions—my passion for people and my family and for friends and just being really relational... and so, it's kind of come full circle.”



During a mission trip to El Salvador, Dylan got involved with a local soccer league and plans to start a special league for at-risk youth when he begins his full-time mission work.

In Memoriam

Clyde Baldwin, PE

The Kentucky Society of Professional Engineers is sad to learn of the passing of Clyde Baldwin, PE on Thursday, December 9, 2021. Clyde served NSPE-KY in many capacities, including as president in 1985-86, and had a long history of supporting the programs of KSPE/NSPE and the engineering profession. Please keep Clyde's family and friends in your thoughts and prayers.

He was united in marriage to his wife of 60 years, Jo Anne Booth Baldwin. He started shining shoes and clerking in a men's clothing store. A 1965 and 1968 graduate of University of Kentucky, Clyde received both his bachelor of Science in Civil Engineering and Master of Science in Environmental Engineering. After college, he continued his education at Manhattan College where he studied during a Summer Seminar on Biological Waste Treatment in 1972.

Clyde was a member of the National Society of Professional Engineers and served as the National Director from 1992-1995. In addition, he served many titles in the Kentucky Society of Professional Engineers, including State President, State Secretary, and State Treasurer. He served as chair of Kentucky State Board of Licensure for Engineers and Land Surveyors.

His community involvement also includes being member of the Farmers Bank and Trust Board of Directors, American Academy of Environmental Engineers, Water Pollution Control Federation – International Board of Control; Frankfort Electrical and Water Plant Board Vice Chairman, Kentucky Beef Cattle Association, President of Franklin County U.K. Alumni Association, and life member, of UK Alumni Association, Delta Tau Delta Social Fraternity, and many other local and state organizations.



Please click on the link below for the full obituary.

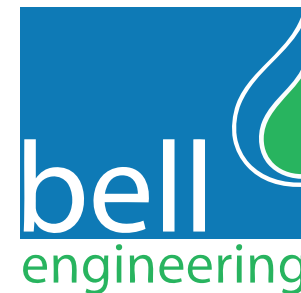
www.harrodbrothers.com/obituaries/Clyde-Baldwin

Clyde was one of my favorite bosses over my career and I had many. I served under his direction from 1977-1981. He was one of my mentors as a young professional engineer. My thoughts and prayers to his family and loved ones.

– David Quarles UK '84

My sincere sympathy to the entire Baldwin family. Clyde was a truly exemplary public servant, and it was an honor for me to serve with him during my tenure as Secretary of Natural Resources & Environmental Protection. He as also an outstanding citizen who did much to make this a better community, and he will be greatly missed. He leaves a great legacy, and lived a great life.

– Phillip Shepherd



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