



# Columbus Engineer

Official Publication of the Franklin County Chapter of the  
Ohio and National Societies of Professional Engineers

## President's Message

by Kevin Ernst, P.E. - FCC President



The Chapter would like to thank Michael Seal, Senior Bridge Engineer of Burgess & Niple for his presentation at the chapter's October luncheon. Michael described rope access methods for inspecting bridges, a stadium, a 1960's and newer

NASA testing structures, along with other elevated structures such as multi-floor buildings, windmills, water line piping, and towers. Michael indicated that the rope access method may be utilized in many circumstances to inspect or test at heights in lieu of using cranes or other heavy equipment for access, thus providing for significant time and cost savings.

This month's luncheon on November 17th will include a presentation about the completion of the US 23 & I-270 interchange project by Brian Davidson, P.E. of ODOT District 6, so invite a guest or two and join us!

With respect to the startup effort of the Ohio State University OSPE Student Chapter, on October 18th approximately 50 engineering students attended an on-campus information meeting organized by OSPE-FCC's Kevin Monroe and faculty advisor, Halil Sezen to learn about the student chapter and enjoy free pizza and soda! A special thanks is in order for James Gonya, OSPE/EFO's State Student Council representative, for making the a road trip from Toledo to attend the meeting to provide his insight into the inner workings of student chapters. Franklin County Chapter (FCC) members, Richard Wand and Michael Crichton provided great insight into the importance of the license and how it opens doors for the future; and discussed ethical issues as well upcoming events. Leadership roles, and volunteer and networking opportunities were discussed with the students. The next steps supported by OSPE-FCC includes assisting the students organizing their chapter and electing officers. All for now, and best regards!

## OSPE-FCC November Luncheon Program

**Date:** Thursday November 17, 2016

**Place:** La Scala Restaurant  
4199 W. Dublin Granville Rd., Dublin, OH

**Time:** Registration: 11:30 am

**Lunch:** 11:50 am

**Speaker:** 12:00 pm

**Closing Remarks:** 1:00 pm

**Cost:** Members: \$20.00 & Non-Members: \$30.00.

**Registration:** Visit [fccospe.org](http://fccospe.org). Pay at door or online at ([www.fccospe.org](http://www.fccospe.org)). No access to computer contact Jim Arnold, 614-299-2133, to help with registration.

**Project Description** - Northside Mega Fix includes the FRA-23 Trench project, which extends from Wilson Bridge Road in Worthington, north to Lazelle Road; East and west of US 23 on I-270 to complete the new interchange. The project constructed two northbound express lanes on US23, a new High Street bridge over I-270, and reconfigured two of the ramps at the I-270/US23 interchange. The SR315/I-270

interchange will be reconfigured to provide a separate eastbound I-270 ramp to US23 crossing over the SR315 NB ramp, as well as provide a new SR315 SB flyover ramp to I-270 EB. This project will also build a new US23 SB ramp to allow free flow traffic to I-270 WB and SR315.

**PRESENTER:** Brian J. Davidson, P.E. , Project Manager Brian Davidson started his ODOT District 6 project management career in 2013, and previously spent 8 years as the Deputy Engineer at Marion County Engineer's Office. Brian received his BSCE from Ohio Northern University. He is the project manager of the North Side Mega Fix projects, as well as the Columbus Crossroads 70/71 Phase 5 project, the Design Build Gemini Place Extension and the District 6 Ohio Bridge Partnership Program Design Build projects.

-----  
A certificate for 1 hour of Professional Development for attending the program will be presented at the luncheon.

## FCC Auxiliary Nov. Meeting

The Auxiliary to the Franklin Co. Chapter of OSPE will meet for a noon luncheon on Tuesday, November 15, at La Scala Restaurant, 4199 W. Dublin Granville Rd., Dublin, OH, phone 614-889-9431. Program “Philanthropy Luncheon”.

Guests are always welcome. To make a reservation, call Jean Mitchell at 614-262-7071.

## FCC Member Addresses

**Reminder, are your mailing addresses and email addresses current with NSPE and OSPE?** Our chapter mailing list addresses both mail and emails are downloaded from the NSPE database and the OSPE database. We update our mail lists from these databases. If you have not updated your information in NSPE and/or OSPE, FCC will not have a correct address available for to receive the Columbus Engineer.

For updating your address in NSPE/OSPE/FCC go to <https://www.NSPE.org>, click on LOGIN. Login using your email stored in the NSPE profile and password in your NSPE profile. This page also gives assistance in logging in. Once logged in Manage your Account and update information.

For updating OSPE/FCC contact OSPE office, 614-223-1144, Pam McClure, [admin@ohioengineer.com](mailto:admin@ohioengineer.com) and give her your updated information.



Because Infrastructure Brings Value to our Lives

**CMT**  
Engineers and Consultants

Ohio Locations:  
Columbus | Dayton

[www.cmtengr.com](http://www.cmtengr.com)

## FCC Booth OTEC Show

By Paul Junk, PE, PS



Above, left Paul Junk, PE, PS and right, Kevin Ernst, PE

The Ohio Transportation Engineering Conference (OTEC) is sponsored by Ohio Department of Transportation and The Ohio State University. This conference has been held for 70 years. Over 3,600 participants attended the conference this year. It is considered one of the best transportation meetings in United States. Consultants, suppliers and associated organizations compete to attract the conference participant's attention. The Franklin County Chapter of Ohio Society of Professional Engineers shared a booth with Terracon in the exhibit area to spread the word of OSPE. This is the first year for our booth. A special thanks goes to those who help man the booth and to Terracon for their assistance. Most of the participants were Transportation Engineers and we wanted to give them a chance to learn more about OSPE and what we can provide for the licensed professional.

Jerry Wray, PE, PS, ODOT Director was one of the speakers who welcomed the participants to the conference. He recognized his employees for their service and talked about the goals for ODOT. The conference is a place to learn what is new in transportation and a chance to make new friends and met old ones. I have been going to this conference for over 30 years and feel privilege to say hi to people like Dave Weir, PE, PS, past county engineer and ODOT Director and the others I have meet over my career. This is a great place to recruit new members for our chapter. I hope to see you at the booth next year.

The booth was manned by Kevin Ernst, PE, Ron Eifert, PE, Ben Brown, PE and Paul Junk, PE ,PS for the two days of OTEC

## OUR LUNCHEON PROGRAMS – Part Two

By Leon Winget, PhD, PE

Our 2016-2017 luncheon programs continue. Our October luncheon speaker, Mike Seal, gave an illuminating presentation on the use of ropes for inspecting bridges, large buildings, etc. There are other methods, but the cost and the inconvenience in traffic flow while the inspection is underway cannot compete. Although drones are valuable for assisting in the inspection, there are items that cannot be addressed without the professional engineer on site. Watch for more about this presentation in a later Columbus Engineer Issue.


As mention earlier, our luncheon programs are ideal for informing our members of our ongoing activities and recent and new developments in engineering and science related to engineering principles. Our programs are developed to credit one hour of CPD's, which are required to maintain the PE's license. The programs include the topics of technology, ethics/rules or management.

Our programs have been established for this Fiscal Year (FY 2016-17). We have six luncheons each FY year. Our upcoming programs include the finishing touches of the US-23 over I-270; the structural perspective of

the OSU North Residential District Transformation; geophysical testing which is critical for all construction projects (roads and buildings); and the Buckeye Bullet (set the land based speed record). Please see the 2016-17 Calendar in this issue of CE for programs listed. Should you have any projects that you would like to have presented or dissected, please contact either our President Kevin Ernst (kevin.ernst@terracon.com) or Program Chair Leon Winget (lewinget@att.net).


At the present time, we are looking forward to the following possible projects for future years: enhancement of manmade "old" dams, 3-D and its impact on engineering design, self-driving cars, and robotic enhancement of engineering design and build. As engineers we need to know what was learned in the past, what we are learning in the present, and what we can expect in the future and beyond. Should you have input or know anyone who would be an excellent presenter on any engineering concept, please let us know.

We will be waiting for you suggestions and should you wish to join the Program Committee, please contact lewinget@att.net.



Highway | Railroads  
Structural & Traffic Studies  
Water Resources | Environmental  
Federal | Infrastructure  
GIS, Surveying & Mapping | Energy  
Program & Project Management

3650 Olentangy River Road, Suite 110 | Columbus, Ohio 43214  
614-470-9750 | www.patrickco.com



**E. P. FERRIS**  
AND  
**ASSOCIATES**  
INC

Consulting Civil Engineers and Surveyors

## Ohio State University OSPE Student Chapter Organizational



Photo taken at the OSU student chapter kickoff meeting held on October 18, at OSU's Hitchcock Hall.



# Columbus Engineer

## 2016-2017 OFFICERS, TRUSTEES & COMMITTEE CHAIRS

	Name	Phone # (w) or (h)	Cell Phone #	E-mail Address
President	<b>Kevin Ernst, PE</b>	614-863-3113 (w)	614-203-1199 (cell)	kevin.ernst@terracon.com
Chapter Secretary	<b>Steve Wilson, PE</b>	614-933-2246 (w)	614-832-5019 (cell)	sfwilson@aep.com
Treasurer	<b>Steve Day, PE</b>	614-876-7525 (w)	614-531-2858 (cell)	lday1@columbus.rr.com
Past President	<b>Paul F. Junk, PE, PS</b>	740-363-4462 (h)	740-972-1915 (cell)	pjunkk1@columbus.rr.com
Administrative Assistant	<b>Nancy Mergel</b>	614-863-3134 (h)	614-863-3134 (fax)	OSPEFCC@aol.com
	<b>NEW FCC-OSPE Website</b>			www.fccospe.org
OSPE Executive Director	<b>Tim Schaffer</b>	614-223-1144 (w)		exec@ohioengineer.com
OSPE/EFO Staff	<b>Pam McClure</b>	614-223-1144 (w-OSPE)		admin@ohioengineer.com
	<b>Holly Ross</b>	614-223-1177 (w-EFO)		pr@ohioengineer.com
<b>VICE-PRESIDENT</b>	<b>TRUSTEE/COMMITTEE</b>	<b>CHAIRPERSON</b>	<b>TELEPHONE</b>	<b>E-MAIL</b>
Ben Brown, PE	President-Elect	Ben Brown, PE	614-468-1200 (b) 614-519-8978 (cell)	benbrown@cmtengr.com
	Programs/CPD/Activity	Leon Winget, PhD, PE	614-395-8249 (cell)	lewinget@att.net
	Membership	Ron Eifert, PE	614-885-4138 (h) 614-315-9551 (c)	roneifert@aol.com
	Young Engineer Trustee	Josh Otworth, EI	614-468-1208 (w) (cell)	jotworth@cmtengr.com
	Retired Engineers Trustee	Ron Eifert, PE	614-885-4138 (h) 614-315-9551 (c)	roneifert@aol.com
	PEHE Trustee	Alden Jenkins, MBA, PE, PS	614-891-9431 (h) 614-287-3693 (w)	ajenkin2@csc.edu
	Chapter Directory	Steve Wilson, PE	614-552-1714 (w) 614-832-5019 (cell)	sfwilson@aep.com
Paul F. Junk, PE, PS	Vice-President	Paul F. Junk, PE, PS	740-363-4462 (h) 740-972-1815 (cell)	pjunkk1@columbus.rr.com
	Science Day (District)	Yogesh Rege, PE	614-328-5137 (w) 304-951-7847 (cell)	yogesh.rege@terracon.com
	Scholarship	Joe Sullivan, PE	614-486-4383 (w) 614-561-5447 (cell)	joe.sullivan@stantec.com
	Columbus Engineer Editor	Howard Jones, PE	614-209-3289 (h) 614-209-3289 (cell)	hrjones63@yahoo.com
	Engineers Week Luncheon	CR Weaver, PE	614-645-7100 (w) 614-946-2961 (h)	CRWeaver@columbus.gov
	Engineer For A Day	Charles Ohrstedt	614-937-1512 (cell)	mohrstedt@sbcglobal.net
	PEG Trustee	CR Weaver, PE	614-645-7100 (w) 614-946-2961 (h)	CRWeaver@columbus.gov
Tina Sutermeister, PE	Vice-President	Tina Sutermeister, PE	740-964-0828 (h) 740-964-0828 (cell)	tlsuterm@embarqmail.com
	MATHCOUNTS (Reg) Co-Chair	Joe Bolzenius, PE	614-498-0339 (w) 614-354-4933 (h)	joseph.bolzenius@hotmail.com
	MATHCOUNTS (Reg) Co-Chair	Ben Brown, PE	614-468-1200 (b) 614-519-8978 (cell)	benbrown@cmtengr.com
	Awards/Citations	Ron Eifert, PE	614-885-4138 (h) 614-315-9551 (c)	roneifert@aol.com
	Legislative	Steve Day, PE	614-876-7525 (w) 614-531-2858 (cell)	lday1@columbus.rr.com
	PEI Trustee	Tina Sutermeister, PE	740-964-0828 (h) 740-964-0828 (cell)	tlsuterm@embarqmail.com
	EFO Liaison	Steve Day, PE	614-876-7525 (w) 614-531-2858 (cell)	lday1@columbus.rr.com
Charles Ohrstedt, PE	Vice-President	Charles Ohrstedt, PE	614-937-1512 (cell)	mohrstedt@sbcglobal.net
	Imagine Engineering Contest	Devon Seal, PE	614-221-0678 (b) 614-208-6986 (cell)	devon_seal@gspnet.com
	Auxiliary Trustee	Jane Smith	614-451-6911 (h)	jecree@sbcglobal.com
	OSPE Director	Ron Eifert, PE	614-885-4138 (h) 614-315-9551 (c)	roneifert@aol.com
	Constitution & By-Laws	Devon Seal, PE	614-221-0678 (b) 614-208-6986 (cell)	devon_seal@gspnet.com
	PEPP Trustee	Gene Geiger, PE	614-328-5206 (w) 614-558-3327 (cell)	gene.geiger@terracon.com
	PEC Trustee	Yogesh Rege, PE	614-328-5137 (w) 304-951-7847 (cell)	yogesh.rege@terracon.com

Revised 10/09/2016

## 2016-17 CALENDAR

Nov. 8	5:30 p.m.	FCC Board Meeting @ Terracon Consultants, Inc.
Nov. 13	5:00 p.m.	Deadline for December <i>Columbus Engineer</i>
Nov. 17	11:30 a.m.	<b>Program: US23.I-270 Interchange Completion and Results – Brian Davidson, PE, Project Manager at ODOT District 6</b>
Dec. 13	5:30 p.m.	FCC Board Meeting @ Terracon Consultants, Inc.
Dec. 18	5:00 p.m.	Deadline for January <i>Columbus Engineer</i>
Jan. 10	5:30 p.m.	FCC Board Meeting @ Terracon Consultants, Inc.
Jan. 15	5:00 p.m.	Deadline for February <i>Columbus Engineer</i>
Jan. 19	11:30a.m.	<b>Program: “The Structural Perspective of the OSU North Residential District Transformation” - Jon Beier, P.E., LEED AP BD+C, Principal, SMBH, Inc.</b>
Feb. 14	5:30 p.m.	FCC Board Meeting @ Terracon Consultants, Inc.
Feb. 15	5:00 p.m.	Deadline for March <i>Columbus Engineer</i>
Feb. 11	8:00 a.m.	Regional Mathcounts Competition @ Columbus State Community College
Feb. 19-25		National Engineers Week (see <a href="http://www.eweek.org">www.eweek.org</a> )
Feb. 22	8:00 a.m. – 3:00 p.m.	Engineer for a Day Program
Feb. 23	11:30 a.m.	<b>Program: E-Week Luncheon</b>
Mar. 11	8:15 a.m. – 4:00 p.m.	Ohio Mathcounts Competition (OSPE, see <a href="http://www.ohioengineer.com">www.ohioengineer.com</a> )
Mar. 14	5:30 p.m.	FCC Board Meeting @ Terracon Consultants, Inc.
Mar. 15	5:00 p.m.	Deadline for April <i>Columbus Engineer</i>
Mar. 16	11:30a.m.	<b>Program: “Geophysical Testing”</b>
Mar. 18		District Science Day
Apr. 11	5:30 p.m.	FCC Board Meeting @ Terracon Consultants, Inc.
Apr. 15	5:00 p.m.	Deadline for May <i>Columbus Engineer</i>
Apr. 20	11:30a.m.	<b>Program: “Buckeye Bullet:</b>
May 9	5:30 p.m.	FCC Board Meeting @ Terracon Consultants, Inc.
May 16	5:00 p.m.	Deadline for June <i>Columbus Engineer</i>
May 18	11:30 a.m.	Chapter Officer Installation/ Awards Luncheon
July (TBA)		FCC Budget Meeting - Location to be announced

Terracon Consultants, Inc. Address: 800 Morrison Road, Columbus, OH 43230

### WHERE DO I GET MORE INFORMATION?

FCC-OSPE Office e-mail & phone number:	<a href="mailto:ospefcc@aol.com">ospefcc@aol.com</a>	(614) 470-4170
FCC-OSOE President E-mail & Phone:	<a href="mailto:kevin.ernst@terracon.com">kevin.ernst@terracon.com</a>	(614) 203-1199
OSPE-FCC WEBSITE:	<a href="http://www.fccospe.org">www.fccospe.org</a>	
OSPE WEBSITE:	<a href="http://www.ohioengineer.com">www.ohioengineer.com</a>	
NSPE WEBSITE:	<a href="http://www.nspe.org">www.nspe.org</a>	
To volunteer to help with MATHCOUNTS:	<a href="mailto:joseph.bolzenius@hotmail.com">joseph.bolzenius@hotmail.com</a>	(614) 498-0339
To volunteer to help with Science Day:	<a href="mailto:yogesh.rege@terracon.com">yogesh.rege@terracon.com</a>	(614) 863-3113
To volunteer to help with OSU Student Chapter:	<a href="mailto:krmonroe@HNTB.com">krmonroe@HNTB.com</a>	(614) 493-5515
To volunteer to help with Imagine Engineering:	<a href="mailto:devon_seal@gspnet.com">devon_seal@gspnet.com</a>	(614) 221-0678
FCC Luncheons / Programs:	<a href="mailto:lewinget@att.net">lewinget@att.net</a>	(614) 552-1697
New Members / Membership Application	<a href="http://www.nspe.org">www.nspe.org</a> or <a href="http://www.ohioengineer.com">www.ohioengineer.com</a>	(614) 223-1144


## Imagine Engineering Coloring Contest

We are kicking off our annual Imagine Engineering Second Grade Coloring Contest and we need your help to get the next generation excited about engineering. Join us this year and visit your local second grade class to help them imagine themselves as Professional Engineers. Most second graders have no idea what a Professional Engineer does or what Engineering even means.

This program is a great opportunity to educate students about future career opportunities, get them excited about engineering, increase awareness about our profession, and elevate the perception of professional engineering in our community.

Volunteering only takes a few hours of your time and it is easy and fun. We have experienced presenters that would be happy to co-present with rookie volunteers and share some tricks of the trade.

We have a list of schools that have already signed up to participate in the program, or if you are interested in presenting at your local school or to your child's second grade class we can get your school signed up for the program and provide you with materials for your presentation. Please contact me if you are interested at [devon\\_seal@gspnet.com](mailto:devon_seal@gspnet.com) or 614-208-6986.



**CIVIL ENGINEERS &  
SURVEYORS**

---

WWW.SANDSDECKERCPS.COM      866 - 277 - 0000

---

ATHENS    LOGAN    COLUMBUS    ZANESVILLE



**G R E S H A M  
S M I T H   A N D  
P A R T N E R S**

---

ARCHITECTURE ENGINEERING INTERIORS PLANNING

---

155 East Broad Street | PNC Plaza, Suite 900  
Columbus, OH 43215  
614.221.0678

---

[www.greshamsmith.com](http://www.greshamsmith.com)



**AEP TRANSMISSION**



**ms consultants, inc.**  
engineers, architects, planners

## Engineer for a Day 2017

By Charles Ohrstedt

The “Engineer for a Day” program is organized for high school students who have an interest in learning about careers in engineering. The program takes place during the National Engineers Week this year being February 22, 2017. The students get to spend a day as a guest of an engineering company to gain first-hand knowledge of the role of an engineer.

This gives the students (high school juniors and seniors) a real world exposure to a possible future career as an engineer. The activities for the day of the program are to help the student learn – what do engineers do, what are the engineering activities of the company (engineering business and products), what field of engineering discipline is involved, and what are the challenges the engineer faces on a daily basis.

The Chapter is seeking industries, consultants and government agencies to host student for a day. This usually runs from 8:00 or 9:00 AM until 3:30 PM. Your organization would provide a program for the student/students during the day and their lunch.

If your organization is interested in hosting a student/students, please contact the program chair Charles Ohrstedt at 614-937-1512 or email [mohrstedt@sbcglobal.net](mailto:mohrstedt@sbcglobal.net) or Nancy Mergel, Administrator of the Chapter Office of the FCCOSPE at [FCCOPSE@aol.com](mailto:FCCOPSE@aol.com).

The program has enjoyed tremendous support from many companies and organizations. These companies have been very supportive of the program in the past and we appreciate and value their continued support at molding the future engineer. The program has changed over the years, as well now prefer that students have a means of transportation to and from their host companies.

If any members of OSPE-FCC know of any high school Students that would like to participate in this educational program and have not received any information from their high school, please contact us so we can get them the information they will need to participate. We have always been able to place the students that have asked to participate in Engineer for a day.

**PROUDLY DISPLAY YOU ARE A PROFESSIONAL ENGINEER**

Frame your license plate with a black frame and raised white letters. The frames are ideal gift for newly licensed Professional Engineers, or for a spouse, an associate, friend, son or daughter who is a Professional Engineer. This is also a great way to recognize the new Professional Engineer in your organization by presenting them with a Professional Engineer License Plate Frame.



These frames are available through the Franklin County Chapter of the Ohio Society of Professional Engineers, web site: [www.fccospe.org/store/](http://www.fccospe.org/store/). Each frame requires a \$5.00 donation plus Shipping and Handling.

FIRST CLASS

OHIO SOCIETY OF  
PROFESSIONAL ENGINEERS  
Franklin County Chapter  
P.O. Box 69  
Reynoldsburg, Ohio 43068



**Daniel J. Lauletta**  
CFP®, ChFC®, CLU®, AEP  
*Financial Advisor*  
*Financial Planner*

**Lighthouse Wealth Solutions**  
9200 South Hills Blvd.,  
Suite 100  
Broadview Heights, OH 44147  
Office (440) 746-8762  
Cell (440) 319-0739  
Fax (440) 746-9950  
dlauletta@financialguide.com  
massmutual.com/lighthouse-wealth-solutions



**Terracon**  
Consulting Engineers and Scientists  
Offices Nationwide • terracon.com

Kevin M. Ernst, P.E., Office Manager  
Kevin.Ernst@terracon.com

800 Morrison Road  
Gahanna OH 43230

(614) 328 5168 terracon.com/Columbus



Civil & Environmental Consultants, Inc.

- ▶ Civil Engineering / Master Planning
- ▶ Ecological Sciences
- ▶ Environmental Engineering & Sciences
- ▶ Waste Management
- ▶ Water Resources
- ▶ Survey

**Contact:**  
Ababu Gelaye, CPESC, P.G.  
agelaye@cecinc.com  
614-310-2079  
250 Old Wilson Bridge Road  
Suite 250  
Worthington, OH 43085

**www.cecinc.com**  
locations nationwide

*Proud sponsor of the Franklin  
County Chapter of The Ohio  
Society of Professional Engineers*



**KORDA**

KORDA/NEMETH ENGINEERING