



VOL. 74  
NO. 3



JANUARY 2016

# Columbus Engineer

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

## PRESIDENT'S MESSAGE

By Paul F. Junk, PE, PS, FCC President



As the holidays come to a close, let's look to some future events in which you can participate. MATHCOUNTS local district is coming up in February at Columbus State College. We need volunteers to act as proctors, graders and man the registration. MATHCOUNTS is for elite junior

high students who complete with other schools in solving various math problems. After this competition, the winners go on to compete with other regions in the State of Ohio the next month, also at Columbus State College. Then mathletes from all over the nations will meet later this year.

February is the month we celebrate the profession of Engineering. Please don't forget to sign up for the

Engineer's Week Luncheon at the Villa Milano on February 24th. It is a special time for fellowship with engineers from all disciplines. All the engineering societies in central Ohio are preparing this special luncheon.

The Chapter is available to you by any means you want to contact us. You can contact any officer by phone or email which are listed in The Columbus Engineer. We have Email address of "OSPEFCC@aol.col" and a postal address of P.O. Box 69, Reynoldsburg, Ohio 43068. In addition there is the web site ([www.fccospe.org](http://www.fccospe.org)). On this web site you can register for luncheons, leave messages, buy PE License Frames, and get news on the chapter. I would like to thank our Web Master Jim Arnold who is doing an excellent job setting up the web site and maintaining it. So feel free to let us know what you think or please volunteer.

## OSPE-FCC January Luncheon Program

**Date:** Thursday January 21, 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.

**Topic: "Ethics - Ohio Revised Code and Ohio Administrative Code"** The presentation, Ethics - Ohio Revised Code and Ohio Administrative, will look at provisions of the Ohio Revised Code pertaining to the Board of Registration for Professional Engineers and Surveyors as well as the Code of Conduct for Engineers contained in the Ohio Administrative Code.

**Presenter:** William Lhota, P.E., P.S., teaches business and engineering ethics. He is a labor arbitrator for the Federal Mediation and Conciliation Service and an arbitrator for the Financial Industry Regulatory Authority (FINRA). A founder and lecturer for the Ross Leadership Institute. Chair of the board for QICParc Inc.



and OSU Management GP Inc., and an Advisory Board member for IGS Energy and Werth Associates. Lhota is the former president and CEO of the Central Ohio Transit Authority and a former senior executive for AEP.

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

## ETHICS - OUR FCC LUNCHEON PROGRAMS CONTINUE

The 2015-2016 FCC luncheon programs continue into the New Year. Our luncheon programs as well as our Columbus Engineer (CE) are important avenues keeping our members informed of recent and new developments in engineering and science related to engineering principles. The programs, to earn a CPD, must be directed toward either technology, management or ethics/rules. In the near future, our CPDs will require two hours per biennium (2 out of 30 hours) of ethics/rules. Ethic/rules include the principal concepts that we as professionals must abide. An ethics definition “Ethics involves systematizing, defending, and recommending concepts of right and wrong conduct”.

Mr. William Lhota, PE, PS of the Ross Leadership Institute, is our January leader and presenter. We are very fortunate, as Bill has intensive/extensive experience in the field of ethics.

Ethics is a very timely topic, as the House of Representatives is considering a bill to required our members to review ethics and legislation applying to professional engineers. House Bill 236 is legislation that will require two hours of ethics and/or rules training each biennial license renewal. This code covers the engineer’s responsibility to the public and conflict of interest as specified in the Administrative Code 4733. Although the bill did not pass last year, it will be re-introduced this year. Ohio Society of Professional Engineers (OSPE) strongly supports this bill.

In November last year, Ohio professional engineers and professional surveyors provided testimony supporting the bill. The testimony by our FCC member David Pritchard, PE, stated: “Professional engineers directly and oftentimes substantially affect the public health, safety and welfare. With professional engineers having that kind of influence, continual professional development hours in professional ethics and rules are every bit as vital as technical education and engineering design standards. Mandatory continuing professional development hours in ethics and registration would primarily cover provisions of Ohio Revised Code 4733-35, the Code of Ethics for Engineers and Surveyors. ... OSPE feels strongly that passage of House Bill 236 would reinforce the importance of Ohio laws and rules. Likewise, this legislation supports the spirit of the Engineers Creed.”

The National Society of Profession Engineers and the Professional Land Surveyors of Ohio also provided written testimony in support of the legislation. In addition, John Greenhalge, Executive Director of Board of Registration for Professional Engineers and Surveyors, testimony supported the bill, implying ethics/rules are as important as technical and design updates for our professional engineers.

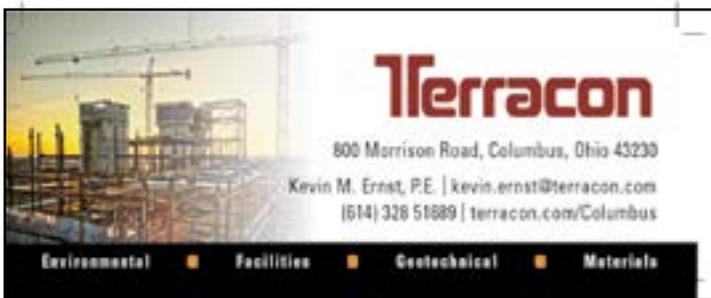
**The subjects** of the next two luncheon presentations are “Round Abouts” and “Pipeline Corrosion”. Should you have any topic that you would like to have presented at our luncheons, please contact either our President or Program Chair Leon Winget at [lewinget@att.net](mailto:lewinget@att.net).

### FCC/OSPE OFFICE UPDATE

FCC no longer has voice mail to leave information or contact the Administrative Assistant. Instead we urge you to use the FCC web site at [www.fccospe.org](http://www.fccospe.org). You may still reach Nancy Mergel, Administrative Assistant, by email at [OSPEFCC@aol.com](mailto:OSPEFCC@aol.com), and by home phone 614-863-3134. The 2015-2016 OFFICERS, TRUSTEES & COMMITTEE CHAIRS list in this issue of the Columbus Engineer shows this information.

### FCC Auxiliary Meeting Information

The auxiliary is not meeting in January or February. There next meeting will be in March, 2016.



## Robert Tippett Obituary



Past EFO President, Robert H. Tippett, age 96, of Worthington, passed away on November 27, 2015. Robert was born in Cleveland on December 26, 1918 and graduated from Wellston High School in 1935 and The Ohio State University in 1939 as a Civil Engineer. He served in the US Army from

July 1940 to December 1945 with combat engineers unit in Panama and Philippine Islands. He was employed by Burgess and Niple, Limited in January 1946 in charge of Hoover Dam road relocations. In 1955, he formed highway design section which designed much of the Columbus Expressway System and other major interstate highways in Ohio. In 1965 he formed the water resources planning section and commenced work on the State of Ohio Water Plans which extended over a 10 year period. In 1976 he started a two year study on a water plan for Trinidad, Puerto Rico. Also at that time he was named head of marketing for Burgess & Niple. In 1982 he became Chairman of Board of Partners. In late 1984, he became the head of the Phoenix office of the firm and retired at the end of 1985 after 40 years of service to the firm. He was a member of the Society of Professional Engineers and a past president of the Franklin County Chapter - 1959-1960 and participated in the founding of its education arm, The Engineers Foundation of Ohio in 1964 and served as its president for its first four years. He was a member of Management Association of Ohio and served as president in 1980. He was a member of the Society of Marketing Professionals and Engineers Club of Columbus. He was a trustee of the Stadium Downtown Alumni Association of OSU and a member of the Wheaton Club since 1978 and an officer of the Eleventh Engineer Veterans Group of World War II. He lived in Worthington since 1950 and was retired from the Army Reserves in 1978 as a Lieutenant Colonel of Engineers.

## Richard P Vaughn Obituary

Vaughn Richard B. Vaughn, age 92, of Columbus, Ohio, passed away on December 2, 2015. Richard was born on August 15, 1923 in Defiance, Ohio. He graduated from Defiance High School in 1941. After serving his country in the Army in the Pacific Theater during World War II, he graduated from The Ohio State University in 1951 with a degree in architectural engineering.

He and Elizabeth Romig were married on December 18, 1954 in Carey, Ohio and settled in Columbus, Ohio to raise their family. Richard is survived by his loving wife, Elizabeth; his children, Kurt (Tami) Vaughn, Cheryl (Paul) Whatley, Joel (Beth) Vaughn, James Vaughn, and Mary (John) Gween; grandchildren, Kurt Nicholas Vaughn, Stephen, Michael, Carrie, and Rebecca Whatley, Alyssa and Christopher Gween; great-grandchildren, Emilee Jo Vaughn and Thomas Whatley; his sister, Virginia Lenhart; and many nieces and nephews.

His engineering career included 31 years with the Ohio Bell Telephone Company. He was a long time active member of the Ohio Society and National Society of professional Engineers, the Franklin County Chapter of the Ohio Society and the Ascension Lutheran Church.

### PROFESSIONAL ENGINEER LICENSE PLATE HOLDERS

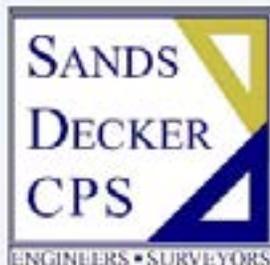
Frame your  
license plate

with a black frame and  
raised white letters.



Get one for your spouse, an associate, friend, son, or  
daughter who is a Professional Engineer.

**Donation \$5.00 Ea.** (Plus Shipping and Handling)  
Contact: Franklin County Chapter, P.O. Box 69,  
Reynoldsburg, OH 43068-0069 or  
Email: OSPEFCC@aol.com



LOGAN

COLUMBUS

ZANESVILLE

follow us on  
twitter



LinkedIn

## Think Like an Engineer - Part 2

In the last issue of the Columbus Engineer, "Think Like an Engineer", listed the attributes that we as engineers should portray to our educators in the K-12 levels. A better understanding of how engineers think could help teachers' better design curricula and provide clues on how to more effectively present engineering as a career to young people, and especially the girls. In addition, employers should also engage in a conversation about the usefulness of focusing on the engineering mindset and encourage staff members to share their knowledge with schools, colleges, and universities.

A research report, sanctioned by the UK Royal Academy of Engineering, stated that if students are exposed to styles of learning that are more closely related to the real world of engineering, they are more likely to view engineering as a subject worth studying and pursuing as a career. Current engineering education for K-12 could be improved to make engineering as a more prominent career choice. The report provided several key recommendations for the engineering profession when interacting with engineering teachers, schools, employers, and the public:

- Have a continuous conversation on "how engineers think" through various events, such as seminars, lectures, blogs, and films.
- Disseminate core messages within the engineering teaching and learning community and a development of

signature engineering pedagogies that include project-based and problem-solving learning.

- Develop a curriculum to provide a chance for leaders, particularly curriculum planners, to create more opportunities for engineering through new programs targeting computing, mathematics, science, and design and technology.

*(The preceding is based on recommendations from the PE July 2014 issue, article by the same name.)*

A better understanding of how engineers think should be presented to the K-12 education profession. FCC has four programs that interact with the K-12 students: Imagine Engineering, MATHCOUNTS, judges to the regional Science Fair and scholarships for seniors selecting an engineering curriculum. This is our opportunity to make an impression on these young potential engineers of the future.

As mentioned before, FCC needs more engineering volunteers to implement these programs. Please contact the Chair of the program that you would like to support. The Chairs are listed in each issue of the Columbus Engineer. Please join us in the support of our profession. *(The back issues of CE are available on the Ohioengineer.com website, under Chapters.)*



**PLANCORP, INC.**  
BENEFITS. INSURANCE. HUMAN RESOURCES. TECHNOLOGY.

**DANIEL J. LAULETTA**  
CFP®, ChFC®, CLU®, LUTCF, AEP®

Office: 216-642-1899  
Direct: 216-503-5416  
Cell: 440-319-0739  
Fax: 216-642-1186  
AR Insurance #390016

9050 Sweet Valley Drive  
Valley View, Ohio 44125-4220  
www.plancorp.biz  
E-mail: DL.auletta@plancorp.biz



**ms consultants, inc.**  
engineers, architects, planners  
Providing comprehensive services  
to Ohio for more than 50 years.

msconsultants.com | 614-898-7100 |   

ENVIRONMENTAL, ENGINEERING AND  
FUNDING SOLUTIONS SINCE 1980

# HULL

we know the way

ALTERNATIVE ENERGY ■ BROWNFIELDS ■ ENVIRONMENTAL ■ SHALE OIL AND  
GAS ■ WASTE MANAGEMENT ■ [www.hullinc.com](http://www.hullinc.com)



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](http://www.patrickco.com)

## 2015-2016 OFFICERS, TRUSTEES & COMMITTEE CHAIRS

	Name	Phone # (w) or (h)	Cell Phone #	E-mail Address
President	<b>Paul F. Junk, P.E., P.S.</b>	740-363-4462 (h)	740-972-1815	pjunk1@columbus.rr.com
Chapter Secretary	<b>Steven Wilson, PE</b>	614-552-1714 (w)	614-832-5019	sfwilson@aep.com
Treasurer	<b>Steve Day, PE</b>	614-876-7525 (w)	614-531-2858	lday1@columbus.rr.com
Administrative Assistant	<b>Nancy Mergel</b>	614-863-3134 (h)	614-866-2861	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

VICE-PRESIDENT	TRUSTEE/COMMITTEE	CHAIRPERSON	TELEPHONE	E-MAIL
Kevin Ernst, PE	President Elect		614-863-3113 (w) 614-203-1199 (c)	kevin.ernst@terracon.com
	Imagine Engineering Contest	Devon Seal, PE	614-221-0678 (w) 614-208-6986 (c)	devon_seal@gspnet.com
	Auxiliary	Jane Smith	614-451-6911 (h)	jecree@sbcglobal.com
	OSPE Director	Ron Eifert, PE	614-885-4138 (h)	roneifert@aol.com
	Constitution & By-Laws	Devon Seal, PE	614-221-0678 (w) 614-208-6986 (c)	devon_seal@gspnet.com
	PEPP Trustee	Kevin Ernst, P.E.	614-863-3113 (w) 614-203-1199 (c)	kevin.ernst@terracon.com
	PEC Trustee	Bruce Larcomb, PE, PS	614-891-5189 (h)	blarcomb@columbus.rr.com
CR Weaver, PE	Vice-President		614-645-7100 (w) 614-946-2961 (h)	CRWeaver@columbus.gov
	Science Day (District)	CR Weaver, PE	614-645-7100 (w) 614-946-2961 (h)	CRWeaver@columbus.gov
	Scholarship	Joe Sullivan, PE	614-486-4383 (w) 614-561-5447 (c)	joe.sullivan@stantec.com
	Columbus Engineer Editor	Howard Jones, PE	614-209-3289 (h) 614-209-3289 (c)	hrjones63@yahoo.com
	Engineers Week Luncheon	CR Weaver, PE	614-645-7100 (w) 614-946-2961 (h)	CRWeaver@columbus.gov
	Engineer For A Day PEG Trustee	Charles Ohrstedt, PE CR Weaver, PE	614-937-1512 (c) 614-645-7100 (w) 614-946-2961 (h)	mohrstedt@sbcglobal.com CRWeaver@columbus.gov
Tina Sutermeister, PE Vice-President			740-964-0828 (h) 614-537-7660 (c)	tlsuterm@embarqmail.com
	MATHCOUNTS (Regional)	Joe Bolzenius, PE	614-498-0339 (w) 614-354-4933 (h)	josephbolzenius@hotmail.com
	Awards/Citations	Ron Eifert, PE	614-885-4138 (h)	roneifert@aol.com
	Legislative	James Baltzer, PE	614-805-8723 (c)	jamesucee@yahoo.com
		Steve Day, PE	614-876-7525 (w) 614-531-2858 (c)	lday1@columbus.rr.com
	PEI Trustee	Tina Sutermeister, PE	740-964-0828 (h) 614-537-7660 (C)	tlsuterm@embarqmail.com
	EFO Liaison	Steve Day, PE	614-876-7525 (w) 614-531-2858 (c)	lday1@columbus.rr.com
Ben Brown, PE	Vice-President		614-468-1200 (h) 614-519-8978 (c)	benbrown@cmtengr.com
	Programs	Leon Winget, PhD, PE	614-552-1697 (w)	lewinget@att.net
	Membership	Ron Eifert, PE	614-885-4138 (h)	roneifert@aol.com
	Young Engineer Trustee	Ryan Dolan, PE	614-552-1862 (w) 330-309-9504 (c)	rcdolan@aep.com
	Retired Engineers Trustee	Ron Eifert, PE	614-885-4138 (h)	roneifert@aol.com
	PEHE Trustee	Tim McCarthy, PE	614-670-1175 (c) 614-292-6404 (f)	mccarthy.226@osu.edu
	Chapter Directory	Steve Wilson, PE	614-552-1714 (w) 614-832-5019 (c)	sfwilson@aep.com

## FIRST CLASS

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

### 2016 CALENDAR

Jan. 12	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Jan. 15	5:00 p.m.	Deadline for February Columbus Engineer
Jan. 21	11:30a.m.	<b>Program: Ethics - Bill Lhota</b>
Feb. 9	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Feb. 13	8:00 a.m.	Local Mathcounts Competition @ Columbus State Community College
Feb. 15	5:00 p.m.	Deadline for March Columbus Engineer
Feb. 21-27		National Engineers Week (see <a href="http://www.eweek.org">www.eweek.org</a> )
Feb. 24	8:00 – 3:00 p.m.	Engineer for a Day Program
Feb. 25	11:30 a.m.	<b>Program: E-Week Luncheon</b>
Mar. 8	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Mar. 12	8:30 a.m. – 3:00 p.m.	State Mathcounts Competition (FCC Volunteers)
Mar. 15	5:00 p.m.	Deadline for April Columbus Engineer
Mar. 17	11:30a.m.	<b>Program: Roundabouts versus Circles</b>
Mar. 19		District Science Day
Mar. 19		Spring Certificate Ceremony (OSPE)
Apr. 12	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Apr. 15	5:00 p.m.	Deadline for May Columbus Engineer
Apr. 21	11:30a.m.	<b>Program: Oil &amp; Gas Pipeline Corrosion - Srdjan Nestic, Chemical Eng., OU</b>
May 10	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
May 16	5:00 p.m.	Deadline for June Columbus Engineer