



# Columbus Engineer

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

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## PRESIDENT'S MESSAGE

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



While reading the January issue of the Point of Beginning Magazine, I noticed a NCEES Ad. It was talking about the last paper and pencil Surveyor's exam will be given in April and the new computer based exam starts in June. The surveyors are converting to a new way to take the registration exam and the engineer's exam switchover

will be coming soon. The registration exam process has changed from when I took the exams. For each exam I remember going to a room with several hundred of my closest friends and my suit case full of reference books and a four function calculator with a slide rule backup. Programmable calculators were considered cheating and now you will be sitting at a computer terminal with all references at your fingertips. If I used the slide rule my test answers only needed

to be taken out to three significant digits. In the old days, engineering students could be spotted on college campus by the slide rule strapped to their hip. Personally I preferred the metal Pickett over the wooden Dietzgen. It was joked that the metal slide rules should be water cooled and the wood could catch fire during exam time and the slide should be rubber so the answer will agree with the answers in the back of the text book. Forgive an old engineer stepping back to his memories of the past.

If you had fun at the local MATHCOUNTS look forward to the State MATHCOUNTS on March 12 at Columbus State Community College. Then on March 19 you can either go to District Science Day at Columbus State Community College or the Spring Certificates Ceremony at Ohio State Capital. These will be interesting events to attend.

## OSPE-FCC March Luncheon Program

Date: Thursday March 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.

TOPIC: Roundabouts: Be Brave and Be Careful!  
This presentation is an introduction to roundabouts and a summary of current roundabout planning and design best practices. Topics to be covered are:

- What is and what is not a roundabout
- Benefits of roundabouts

- Potential challenges with roundabouts
- Key design parameters and criteria
- How to decide between a roundabout and other types of intersection traffic control

PRESENTER: Steve Thieken, PE, PTOE, AICP is a transportation engineer and planner that has been involved as the lead investigator or quality control on the detailed study, design, or peer review of over 100 modern roundabouts in six states. Steve's experience includes roundabout operational analysis, geometric design, maintenance of traffic, signing/stripping, and lighting. He was an original member of the ITE Roundabout Taskforce.



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

## Franklin County Chapter Awards Nominations

The Ohio Society of Professional Engineers (OSPE) supports a comprehensive awards program. For many years. Nominations for awards in various categories are developed at the chapter level. The Franklin County Chapter Board Approved the Awards Committee nominees for Chapter Awards and forward to OSPE for consideration at the State level. The State level committee reviews all Chapter Award nominees and makes the final selection. The winners are announced and awards made at the OSPE annual meeting.

The awards program includes two groupings. (13 total awards). Awards in all categories are not usually made in all categories. The chapter's 2016 nominations are:

Outstanding Engineering Student: Thomas Richard Ziebro, an outstanding mechanical engineering student / candidate for the PhD at the Ohio State University. He has an overall grade point average of 3.68, and maintains an impressive list of professional, non-professional and social organization memberships. His selection is based on the recommendation of the chair of the Department of Mechanical Engineering of OSU.

Outstanding Engineering Educator: David J Bayless PhD PE. Present Position: Gerald Loehr, Ohio University Professor of Mechanical Engineering. Education: BS Mechanical Engineering University of Missouri; MS Engineering Management- University of Central Florida; PhD Mechanical Engineering, University of Illinois: Executive Leadership Institute, Ohio University. Extensive scholastic honors in national defense, environmental restoration, energy fields. Memberships: Mechanical Engineering and Engineering Honor Societies, Coal utilization Research Council; Active Professional Education: Eight years Nuclear Propulsion officer/instructor, United States Navy and National Science Foundation Graduate Fellow- University of Illinois; Twenty Five years- Assistant, Associate and Full Professor of Mechanical Engineering, Ohio University.

Outstanding Engineering Achievement: I-70/I-270 Bridge Fire Response and Reconstruction. On July 1, 2015 a tanker truck carrying 8000 gallons of denatured alcohol overturned on the ramp carrying I-270 SB to I-70 EB in west Columbus, resulting in a fire causing extensive damage to the eastbound mainline I-70 bridge over the ramp. The necessary bridge structure and reconstruction posed a major

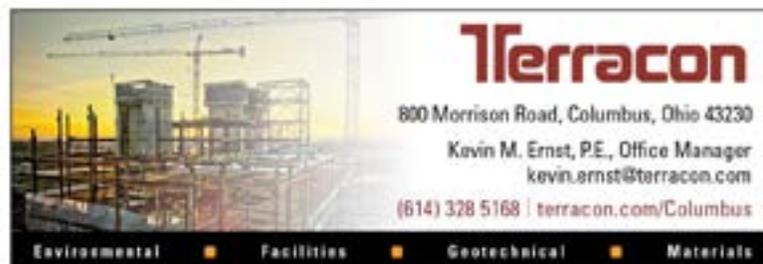
(Awards Nominations continued on page 3)



### FCC Auxiliary March Meeting

The Auxiliary to the Franklin Co. Chapter of OSPE will meet for a noon luncheon on Tuesday, March 15, at Brookside Country Club, 2770 W. Dublin -Granville Rd. Professional musician Johnny Steiner will entertain with a selection of Broadway tunes. Guests would be sure to enjoy this program.

Joanne Troy is to give the invocation and lead the pledge of allegiance. Linda Wong is hostess. To make a reservation, call Jean Mitchell at 614-262-7071.



(Awards Nominations continued from page 2)

traffic disruption and required a bridge structure reconstruction of a demanding and unique nature. The effective and timely traffic modifications and structure reconstruction displayed the efforts of the Ohio Department of Transportation District Six at its operational best.

**Legislator of the Year- Cheryl L Grossman – House District 23:** State Representative Cheryl Grossman is presently serving her fourth term in the Ohio House of Representatives. She represents the 23rd House District, which includes Grove City, Jackson Township, portions of Hilliard, and the City of Columbus and five adjacent townships. She served as assistant majority whip during the 129th general assembly and majority whip during the 130th. Representative Grossman served as mayor of Grove City from 1996 to 2008 after serving as Council member and Council President. She has served or continues to serve on the board of eight other local organizations. She has received awards from at least seven other organizations and has been named as Legislator of the Year by the Ohio County Engineers Association, the Public Children Services of Ohio and three other organizations. She is an active participant in the community and has received at least three leadership awards from community organizations. Her most recent awards include Legislator of the Year by the Lifeline of Ohio, The Early Childhood Advocates, the COSE Small Business Advocates and the Ohio County Engineers Association.

Representative Grossman and her family are lifelong residents of Grove City. She has been Representative of the Year for a number of Years.

**STAR CHAPTER Award:** A STAR Chapter award submission has been made by the Franklin County Chapter. The submission involves a summary of the efforts and effectiveness of the Chapter in seventeen specific areas in the past year. The chapter has been consistently successful in the efforts to be designated as a “STAR” Chapter by the OSPE evaluation committee.

**Overall National Engineers Week Observance:** This award is presented to the chapter that best excels in its week long program to promote the Engineering Profession and educates the community with regard to the true meaning and purpose of “Engineers Week”.

The object of the celebration is to provide an effective, continuous and harmonious series of functions which demonstrate the status, effectiveness and goals of the profession. It is not often very effective. The Franklin County Chapter is developing their award report for their 2016 E-Week program for evaluation by OSPE. The OSPE response is generally favorable.

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## **Technology Progress**

by Paul Junk, PE, PS

Technology has progressed since I first started my career in the Fayette County Engineer’s Office. We reviewed new surveys by doing long hand closures of the written deeds. The closures were to check that the property description was correctly copied and was accurate. Closure consisted of traversing the tract using bearings and distances on a hand written form. Using a five-place logarithms and a hand crank adding machine the size of a typewriter, the error of closure was calculated. One time I could not close a deed, but the surveyor insisted I was wrong. He came to the office and showed me on his new HP-35 where I was wrong. I had copied a logarithm wrong for one course. Needless to say, I was very embarrassed.

Now with computers the results are easier done and printed list of numbers for a quick check and you don’t have to prorate the fractional parts of the bearings from the logarithm table. I remember inking on linen tax maps with holes from the many erasures, to now the maps can be stored on line. Times are changing; I hope I didn’t bore you with stories from the past.

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Email: OSPEFCC@aol.com

## Summary, January Luncheon Presentation Ethics - Ohio Engineering Law and Rules

Our luncheon presenters have been outstanding. We have been very fortunate; the presentations have been extremely informative. In addition, they kept us sitting up in our seats with appropriate quips. Bill Lhota's presentation "Ethics Law and Rules" was no exception. If you were not here you missed a great one. With the passage of House Bill 17, Professional Engineers need to know the law; you still need to know your limits of expertise.

The legislative power of the state of Ohio is vested in the General Assembly consisting of a Senate and House of Representative by Ohio's Constitution. The Ohio Revised Code (ORC) contains the laws enacted by the General Assembly. The Ohio Administrative Code (OAC) contains the rules developed by state agencies as provided for in the ORC.

The State Board of Registration for Professional Engineers and Surveyors in a state agency that is created by the ORC and has developed rules contained in the OAC. It is the responsibility of all Professional Engineers to know and follow the laws and rules of the Board.

The ORC provides that the Board may discipline PE's for violating the laws and rules pertaining to PE's. Specifically, the Board may fine, revoke, suspend, refuse to renew, or limit the registration, or reprimand, place on probation, deny an applicant the opportunity to sit for an examination or to have an examination scored, or impose any combination of these disciplinary measures on any applicant or registrant, or revoke the

certificate of authorization of any holder found to be in violation of laws and rules contained in the ORC and OAC.

The Board, as directed by the ORC, has a Code of Ethics in the OAC that shall be binding upon every person holding a certificate of registration as a professional engineer. Additionally, every person holding a certificate of registration as a professional engineer is charged with having knowledge of the existence of the reasonable rules and regulation provided in the OAC for his or her professional conduct as an engineer, and also shall be deemed to be familiar with their several provisions and to understand them.

If you are not familiar with the Code of Ethics for Engineers and Surveyor go to Ohio Administrative Code section 4733-35 and become familiar as you are to be guided by the Code in all your actions as a Professional Engineer.

## Regional MATHCOUNTS Summary

The MathCounts program affected so many children in a positive way since 1983, and the Franklin County Chapter competition is the largest in the country this year. With the large number of students we have, we need a lot of help to proctor the tests and get them graded in time for the afternoon competition. It is amazing how so many people pull together for this event and we had over 80 volunteers helping to provide an exciting mathematics competition to more than 300 central Ohio students.

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## Why I belong to the Ohio Society of Professional Engineers

by L E Winget, PhD, PE, FNSPE

Many professional engineers ask why they should join Ohio Society of Professional Engineers (OSPE). The following is a very good example what our very prestigious organization contributes to our profession. Our last luncheon program on Ethics Law was indeed timely, in the passage of House Bill 17. In addition, OSPE gave strong support for the passage of the House Bill, including crucial testimony.

Governor Kasich signed Ohio House Bill 17, which will become law in 90 days from February 14. The bill provides civil immunity for engineers, surveyors, architects, contractors' et al, who provide necessary services during declared emergencies. This legislation was cosponsored by one of our members, State Representative Louis W. Blessing, III, PE.

In testimony to the committees of the Ohio House of Representatives and the Ohio Senate, OSPE explained that "House Bill 17 would place in Ohio law a 'Good Samaritan' provision to protect professional

engineers, surveyors and architects, from being held liable in damages in a civil action in relation to volunteering their professional services during or immediately following a declared emergency. The professionals will volunteer their expertise and professional services under the direction of a public official."

OSPE further stated that "House Bill 17 would provide protection for our professional engineers who wish to contribute their time and expertise, without compensation, for the health and safety of the public in the event of a declared emergency. The sole intent is for experienced design professionals to provide their best practice and judgment in determining the safety of situations and structures prior to the release of safety services, and search and rescue teams."

It is highly recommended that all professionals review House Bill 17, and contact their lawyers for proper interpretation of the bill, before acting in a "Declared Emergency".

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## NSPE Interview Dennis Irwin, PhD, PE, President, Ohio Society of Professional Engineers

The 2016 March/April of NSPE's PE magazine published an interview with Dennis Irwin, Dean of the Russ College of Engineering and Technology at Ohio University, and current President, Ohio Society of Professional Engineers.

Below is an excerpt from that article where PE asked "What is your stance on licensure in academia"?

Irwin's response: It's changed a little bit. I was probably luke warm when I first got active in OSPE. Now I'm a pretty strong advocate for it. But not for [the traditional reason of competence]. I've been around faculty members most of my life. They're competent people.

The important part is the shared Code of Ethics. Because nobody is competent enough to do everything. You have to apply the Code of Ethics and what it tells you to do. As far as I know, every state says that if you're not qualified, you must not do the work. It's left up to us to make that decision.

That applies to teaching as well. If I ask someone to teach a course way out of [his or her] area of expertise, it would bother me if [that person] didn't hesitate.

You can see the entire interview on page 16, NSPE PE magazine, March/April.

## 2015-2016 OFFICERS, TRUSTEES & COMMITTEE CHAIRS

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## 2016 CALENDAR

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	11:30 a.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	11:30 a.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
May ??	6:30 p.m.	Annual Spring Banquet / Officer Installation
June 2-4		OSPE Spring CPD Conference & Annual Meeting - Cleveland Airport Marriott
July (TBA)		FCC Budget Meeting Location to be announced

## 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
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To Volunteer to help with MATHCOUNTS:	<a href="mailto:joseph.bolzenius@hotmail.com">joseph.bolzenius@hotmail.com</a>	614-498-0339
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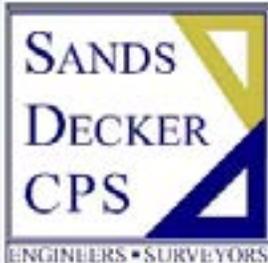
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