



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



Season's Greetings, Merry Christmas and Happy Holidays! As we quickly approach 2017, I wish you and yours all the best for a successful and prosperous New Year. Wrapping up our activities for 2016, the Chapter would like to thank Brian Davidson, Project Manager of the ODOT District 6 for

his outstanding presentation about ODOT's "Northside Mega Fix" project at our November luncheon. Mark your calendar for our next chapter luncheon on January 19th which will include a presentation concerning the structural engineering aspects of The Ohio State University's North Residential Transformation project by Jon Beier, P.E., Principal of SMBH, Inc. Well, I hear some jingling on the roof...so I think it's time to sign off to partake in a cup of holiday cheer! ~ Kevin

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Registration!

By Paul Junk, PE, PS

We all know that registration is important for professional engineers. How did this realization come about? I thought I would talk about my license progression. I did not know what the purpose of registration served until my ethics course at Tri-State University, Angola, Indiana. I knew I wanted to be an engineer, but I did not know how to establish a career in engineering. With the example set by my professors and the ethics course, I realized the importance of registration. Being a little cocky, I took the fundamentals exam in my junior year and learned I was not ready for the exam because it contained many senior year courses. After graduating and working for IDOT, I found registration was important for job growth in the transportation environment. I took the engineering fundamentals exam again in Illinois. The exam was given in a little backroom with 2,000 other young engineers at McCormick Place in Chicago, Illinois. It took forever to find out that the second time was the charm.

My career changed to the Fayette County Engineer's Office in Washington Court House, Ohio. I discovered that engineering was not the only field that needed registration. Working in the tax map office I wanted to be a professional surveyor also. When I meet the requirements for the surveyor exams, I took the SIT on Friday and professional exam on Saturday. It made for a mentally tiring weekend. With the successful completion of the surveying exam, I finished my study for the engineering exam the following year. After being successful with this exam, I continued my path in my profession. During my time in Fayette County, I became active in OSPE. There I learn the importance of OSPE to protect my License and a great way to interact with people of the same mind. That is my story. If anybody else would like to share their experience, please send your story the "Columbus Engineer" editor (Howard Jones, PE, email: hrjones63@yahoo.com).



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OCTM Conference – OSPE Booth

By Leon Winget, PhD, PE

The State MATHCOUNTS committee manned a booth at the Ohio Council of Teachers in Mathematics (OCTM) conference at the Kalahari Resort near Sandusky. OCTM is a state chapter of the National Council of Teachers in Mathematics (NCTM). Thirty-six years ago, National Society of Professional Engineers (NSPE) and NCTM joined together to form the MATHCOUNTS organization. NCTM writes the questions, and NSPE administers the testing procedures. The main objective of MATHCOUNTS is to promote math to our middle school students. The students compete at their school, which allows the coach to determine who competes at the chapters/regions; then the winners at the chapter/regional attend the State competition. The four students with the highest score on the written tests at the State competition are invited to compete at the Nationals, all expenses paid by MATHCOUNTS. The students have a great opportunity to meet other students from various different backgrounds. In addition, the program exposes the students to the professional engineer.

OCTM holds the conference yearly for Ohio math teachers. Approximately 1000 teachers attend the conference. The teachers are from schools k-12. Our goal is to inform the teachers of the MATHCOUNTS programs and especially the competition platform. The Engineering Foundation Organization (EFO) has had a booth at the conference for the past four years. I thank the volunteers (all from FCC) that have helped man the booth. The OCTM conference is a great opportunity for the math teachers to discuss problems and successes at their schools. Consultants, suppliers

and associated organizations are available to present new tools and programs to aid the teacher.

The conference will be held in Columbus next year. I hope to see more volunteers from our chapter to aid in presenting MATHCOUNTS to those that have the greatest impact on our future engineers. In addition to MATHCOUNTS, this is also an opportunity to alert the teachers to the other programs that EFO has to offer. However, our main emphasis is the MATHCOUNTS competition series.



ROPE ACCESS TECHNOLOGY- Summary

By Leon Winget, PhD, PE

Our October luncheon program was very illuminating, as our members were introduced to a rather new “old” technology, at least the uses. Mike Seal, our speaker, introduced our members to the technology “Rope Access” initially developed from techniques used in climbing and spelunking, which allow workers to access difficult-to-reach locations without the use of scaffolding or aerial work platforms (aka “cherry pickers, etc). Rope access technicians work while suspended by their harness. Some of the origins and evolutions of rope access are:

- Climbing and spelunking
- Technical rescue techniques.
- Off shore oil and gas in the 1980’s (IRATA)
- Maintenance and access issues in the North Sea

The advantages that rope access has over other technologies are:

- Safety record over other technologies
- Reduced exposure time
- Equipment and rental costs
- Hazards to pedestrians, vehicles and other workers
- Failure and safety records
- Equipment breakdowns

Rope Access today has many associations worldwide. The largest is IRATA, (International Industrial Rope Access Trade Association), which has over 350 companies and 74,000 technicians. It has grown by leaps and bounds over the past decade. The prevailing association in North America is SPRAT (Society of Professional Rope Access Technicians).

OSPE Student Chapter Update

By Kevin Monroe

No additional meetings have been scheduled since the initial organizational meeting. Our next steps are to email the students with election ballots and then once we receive all the ballots we will elect board members. Once we elect officers we will put in place the Constitution and Bylaws.

Those that are now using rope access technology are:

- Civil, structure, and geo-technical engineers
- Tower and antenna installers
- Wind turbine workers
- High-rise window repair crews
- Motion picture and theatrical set personnel

Examples of Rope Access application:

- Structure inspections
- Non-destructive examination (NDE)
- Geological surveys
- Concrete and steel repair
- Sand blasting, pressure washing, and painting

OSHA, which regulates the safety of many processes, does not address “Rope Access” only rope descent systems, namely “Fall Protection”. ANSI does set regulations for fall protection, subset Z359. The future of Rope Access is now looking to standards set by SPRAT to interface with regulators to keep Rope Access viable.

Mike showed the members many photos of rope access technicians at work. The complete slide show is available on the FCC Web Site.



2016-17 CALENDAR

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.	Program: “The Structural Perspective of the OSU North Residential District Transformation” - Jon Beier, P.E., LEED AP BD+C, Principal, SMBH, Inc.
Feb. 14	5:30 p.m.	FCC Board Meeting @ Terracon Consultants, Inc.
Feb. 11	8:00 a.m.	Regional Mathcounts Competition @ Columbus State Community College
Feb. 15	5:00 p.m.	Deadline for March <i>Columbus Engineer</i>
Feb. 19-25		National Engineers Week (see www.eweek.org)
Feb. 22	8:00 a.m. – 3:00 p.m.	Engineer for a Day Program
Feb. 23	11:30 a.m.	Program: E-Week Luncheon
Mar. 11	8:15 a.m. – 4:00 p.m.	Ohio Mathcounts Competition (OSPE, see www.ohioengineer.com)
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.	Program: “Geophysical Testing”
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.	Program: “Buckeye Bullet:
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



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Engineers Week Luncheon

By C R Weaver, PE

February 20-26, 2017 is National Engineers Week. Locally, the Ohio Society of Professional Engineers along with numerous other technical and professional societies will hold the annual E-week luncheon in Powell, Ohio. More details will follow but the program highlights are below:

E-Week Luncheon (Engineering luncheon)

Presentation: City of Columbus “Smart Columbus” Project

Thursday, February 23, 2016

Bridgewater Banquet & Conference Center
10561 Sawmill Pkwy, Powell, OH 43065.


Registration ~ 11:15am

Program ~ 11:30am-1:30pm

Presentation ~ 12:00pm – 1:00pm

Mark your calendar and plan to attend.


More information to be provided later.



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FCC Auxiliary December Meeting

The Auxiliary to the Franklin Co. Chapter of OSPE will meet for a noon luncheon Tuesday, December 13 (this is a week earlier than normal) at Scioto Country Club, 2196 Riverside Dr. Grandview Singers from Grandview High School will entertain.

Agnes Benedict is to give the invocation and lead the pledge of allegiance. Hostess is Nancy Roehrs. Guests are welcome. For reservations call Marlene March, 614-457-2973.

There will be no Auxiliary Meeting in January or February 2017.

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