



President's Message

by Kevin Ernst, P.E. - FCC President



March Madness is upon us! I hope you enjoyed celebrating the activities associated with National Engineers Week, February 19th through 25th. At the Central Ohio Engineers Week luncheon, keynote speaker, Ms. Aparna Dial

P.E., Columbus Department of Public Service Deputy Director provided an outstanding presentation of The City of Columbus' "Smart Columbus" project which envisions Columbus becoming the nation's epicenter for intelligent transportation systems (ITS) research to improve safety, enhance mobility, and create ladders of opportunity.

This month's chapter luncheon scheduled for March 16th will include a presentation on Geophysical Testing by Kyle Shalek, Ph.D., Senior Staff Geologist of Terracon Consultants, Inc. So if you're tired of watching boring basketball, please join us! The District Science Fair for high school students is scheduled for March 18th at Columbus State Community College. The chapter is looking for a few volunteers to help with judging science projects. If you are interested in helping, please contact me or the chapter's Science Day chairman, Yogesh Rege, P.E. Additionally, you may be interested to know that the President and Board of The Ohio State University's student chapter of NSPE/OSPE has been established. More information about the progress of the student chapter start-up is presented on page 3.

OSPE-FCC March Luncheon Program

Date: Thursday, March 16, 2017

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. Pay at door or online at (www.fccospe.org). No access to computer, contact Jim Arnold, 614-299-2133, to help with registration.

Title: "Geophysical Applications and Project Examples"

Synopsis: Dr. Shalek will discuss some key geophysical methods that include Seismic, Ground Penetrating Radar, and Electrical Resistivity. The project examples will touch on site characterization, buried object locating, marine surveying, and deep foundation testing.

PRESENTER: Kyle Shalek, PhD, Senior Staff Geologist – Geophysical Services, Terracon

BIOGRAPHY: Dr. Shalek provides numerous geophysical services from Terracon's Cincinnati, Ohio office. Dr. Shalek's primary focus is the application of a broad range of geophysical methods to engineering, environmental, and construction projects. Methods include Seismic Refraction, Surface Resistivity (4-pin and Resistivity Imaging), Electromagnetic Induction, and Ground Penetrating Radar (GPR). Kyle also conducts deep foundation testing (Cross-Hole Sonic Logging and Pile Integrity Testing) and marine services, including Side Scan Sonar and Sub-Bottom Profiler surveys. He has worked on numerous geophysical projects across the nation.

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

2017 Regional MATHCOUNTS Summary

The MathCounts program affected so many children in a positive way since 1983, and the Franklin County Chapter competition is one of the largest in the country this year. With the large number of students we have, we needed 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.

Results of Regional Competition held on 2/11/17 at Columbus State Community College.

Top Scoring Teams

- 1st - Dublin Grizzell
- 2nd - McCord (Worthington)
- 3rd - Hastings (Arlington)
- 4th - Olentangy Liberty
- 5th - Phoenix (Worthington)

Top Scoring Individuals (not on a winning team)

1. Lucas Huang (Dublin Karrer)
2. Aditya Akula (New Albany)
3. Soham Konar (Worthingway)
4. Krushik Chiluvuri (Dublin Karrer)
5. Spencer Green (Olentangy Hyatts)
6. Sophie Lin (Hilliard Weaver)
7. Kevin Liu (Dublin Karrer)
8. Rohan Mawalkar (Genoa, Westerville)
9. Justin Guo (Dublin Karrer)
10. Samuel Marano (McCord)

Top Scoring Individuals

1. Lucas Huang - Karrer
2. Aditya Akula - New Albany
3. Soham Konar - Worthingway
4. Jacob Bice - Olentangy Liberty

Countdown Round Winners

- 1st - Lucas Huang - Karrer
- 2nd - Soham Konar - Worthingway
- 3rd - Aditya Akula - New Albany
- 4th - Evan Huang - Hastings

FCC Auxiliary March Meeting

The Auxiliary to the Franklin Co. Chapter of OSPE will meet for a noon luncheon on Tuesday, March 21, at Brookside Country Club, 2770 W. Dublin -Granville Rd. Linda Wong will give the program "The Yellow Mountains in China".

Joanne Troy will give the invocation and lead the Pledge of Allegiance. Barb Fuller is hostess. To make a reservation, call Jean Mitchell at 614-262-7071. Guest are always welcome.



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Central Ohio Engineer's Week Luncheon

By CR Weaver, PE

The Engineers Week (E-Week) luncheon is a high point for Engineer's Week activities, an opportunity for engineers and students to gather, socialize, dine together, listen to an accomplished speaker from within the profession, and celebrate the collective accomplishments of the profession. The 2017 E-Week luncheon was held on Thursday, February 23rd at the Bridgewater Conference Center in Powell, Ohio. Aparna Dial, Columbus Department of Public Service Deputy Director was the keynote speaker. The Ms. Dial spoke about the "Smart Columbus" which won the City of Columbus won the U.S. Department of Transportation \$40 million Smart City Challenge in June, 2016 after competing against 77 cities nationwide to become the country's first city to fully integrate

innovative technologies – self-driving cars, connected vehicles, and smart sensors – into their transportation network.

The event is cooperatively managed by the E-Week committee, which is comprised of members from ten different Professional/Technical societies in Central Ohio: ABCD, ACEC, APWA, ASCE, ASHE, ASHRAE, ECC, FCC-OSPE, IEEE, ITE, and WTS. This year IEEE was the lead organization for the e-week luncheon with Richard Smelker, PE as Chairman. The committee met monthly to plan for the event. This year's event included a total of 279 attendees including 39 students.

OSU Student Chapter Report

By FCC Liaison, Kevin Monroe, EI

The student chapter board members, the faculty advisor and I met in Hitchcock hall Monday night, February 27. This was the first time the nine of us have got together. We introduced ourselves, and then the faculty advisor spoke for about ten minutes about how societies at Ohio State operate. I then spoke for ten minutes about how board meetings at OSPE operate the responsibilities and actions of OSPE and then talked about Franklin County Chapter. I then opened the table for questions and discussions. The students were excited to talk about outreach and event programs. The students were quick to begin brainstorming and asking questions. I was impressed by how the students began helping one another to turn an idea into a real plan. This group may have great chemistry already. I think each board member will be active this coming year.

We plan to meet March 29 at 7 pm for our next meeting. In the meantime, we will make progress to charter the chapter with NSPE and with Ohio State. The president, vice-president and treasurer will work on performing the necessary action items required by Ohio State to be a recognized society. We created a group text chain to easily reach out to one another. I will be creating a Constitution & Bylaws, either by using Franklin County Chapter or reaching out to James Gonya to use Toledo chapter as a model. We will present the constitution and Bylaws at the next meeting and work towards finalizing the document. Also, I will organize reference materials for each board member.

Meet the board members:

Harman Thind - President (Junior-Computer Science)

Woil Jung - Vice President (Senior - graduates in December 2017 in Chemical Engineering)

Liz Schneider - Secretary (Freshman - Industrial Systems)

Madison Lubman - Events Committee (Sophomore - Biological)

Jordan Page - Membership Committee (Junior - Industrial Systems)

Alex Albright - Treasurer (Senior - graduates in July 2017 - Civil Engineering)

We will need a new treasurer and the board members are aware. We will utilize Alex until he graduates and a temporary treasurer will resume. We also plan on adding a few other committee chairs. We plan to add a Media Chair and also Engineering Discipline Representative Chairs. We plan on creating chairs, one for each engineering discipline, and these representatives will be responsible for spreading the good word to their respective departments.

I will reach out to all the members, not just the board members, to help volunteer at MATHCOUNTS, March 11.

2017 Engineer For A Day (EFAD) Report

by Charles Ohrstedt, PE - FCC 2017 EFAD Chairman

EFAD is an annual program developed and organized, during the National Engineers Week, to engage students (High School seniors and juniors) with an interest in Engineering as a profession or career path to discover and learn the real world first-hand knowledge of the role of an Engineer. The overall aim of this program is to influence the students toward making an informed decision of the Engineering Profession. It is hoped that this first-hand, real world interaction with the Engineer's role will impact the students' future career choice as an Engineer.

The activities for the day of the program are planned around helping the students learn and understand engineering work, engineering business, and the activities of the company, engineering discipline and engineering challenges.

Over the years we have seen the field of engineering evolve. This program allows us to look into the window of tomorrow by working with the energetic students of today. The local glimpse into that window suggests the aerospace, bioengineering, biomedical, bioscience, computer and software are growing interest areas compared with the more traditional civil, chemical, electrical, and mechanical disciplines.

This year's EFAD program was held on Wednesday, February 22nd, and included 97 students from the following participating schools:

- Bishop Hartley High School
- Bishop Ready High School
- Bishop Watterson High School
- Centennial High School
- Columbus Africentric High School
- Columbus Downtown High School
- Columbus School for Girls
- Fort Hayes Arts & Academic High School
- Gahanna Lincoln High School
- Grove City High School
- Hilliard Darby High School
- Independence High School
- Northland High School
- Reynoldsburg eSTEM Academy

- St. Francis DeSales High School
- Teays Valley High School
- Walnut Ridge High School
- West High School
- Westerville South High School

The companies that participated in the 2017 EFAD program were:

- American Electric Power
- Advanced Engineering Consultants
- ARCADIS
- City of Columbus
- Franklin County Engineer's Office
- Hull & Associates, Inc.
- MJ Engineering
- ms Consultants, Inc.
- ODOT-Div. of Construction Management
- ODOT-Office of Environmental Svcs.
- S&ME
- Shirk & O'Donovan Consulting Engineers, Inc.
- Stantec Consulting Services
- Terracon Consultants, Inc.
- Vertiv

The Franklin County Chapter – OSPE is looking for additional engineering entities to host students for the EFAD program next year. Next year the EFAD program will occur on Wednesday, February 21st, 2018. Please contact Charles Ohrstedt at mohrstedt@sbcglobal.net if you are interested in assisting young students prepare for their academic and professional journey in the fascinating world of engineering!



EFAD - High School Students at Terracon

OUR LUNCHEON PROGRAMS – Part Four

By Leon Winget, PhD, PE

Our 2016-2017 luncheon programs have been quite diverse. We are coming to another end of our chapter year, with only two more luncheon programs. Our next luncheon presentation is directed toward understanding the ground on which we stand and build. The last program of the chapter year will cover the field of electric automobiles including establishing a new land speed record for an electric vehicle.

The January luncheon presentation was outstanding by Jon Biel, PE, LEED AP BD+C and Joe Noser, PE from SMBH, Inc. The Ohio State University had chosen to increase the number of students, which live on campus. The project was called “The North Residential District Transformation”(NRDT).The goal was to increase:

- Participation in campus events
- Living on campus
- Peer interaction
- Interaction with faculty
- Institutional commitment.

The project was originally advertised as a “Design-Bid-Build”. A team of several professional firms united to build the project. SMBH was selected as the Structural Engineer of Record.

The NRDT added a total of 3,200 new beds along with a new dining facility and an athletic facility. The project

included eight new residential buildings, a dining and event building, an athletic building and low-rise additions to three existing towers in the district. The project added 1.1 million square feet of space to the district.

The project construction cost was approximately \$305 million. The residence halls are cast-in-place concrete, while the remaining structures are structural steel (recreation, banquet and tower additions). Soil conditions vary across the site with rock elevations ranging from five feet below grade to nearly 100 feet. This resulted in spread footings being supported on rock or on rammed aggregate piers.

The project included 8-concrete framed buildings, 2-steel framed building and additions to 3 existing towers. Some of the technical issues covered in this project, besides a great example of project management, were soil conditions, demolition, utilities, steel structure, pile and lagging walls, and bearing on rock verses non-rock.

As I stated before and as mentors of our future engineers, it is mandatory that we, PEs, become acquainted with the upcoming changes in our profession. Again, should you have input or know anyone who would be an excellent presenter on any new or developing engineering concept, or an ongoing interesting project, please contact us.



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Revised 1/26/2017

2016-17 CALENDAR

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.	Chapler Officer Installation/ Awards Luncheon
July (TBA)		FCC Budget Meeting - Location to be announced

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