NSPE-OH ™ FRANKLIN COUNTY CHAPTER
OHIO SOCIETY OF PROFESSIONAL ENGINEERS

Columbus Engineer

Franklin County Chapter

A chapter chartered by the Ohio Society of Professional Engineers.

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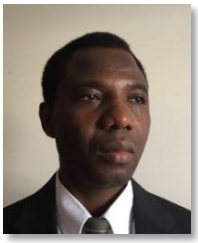

President's Message

Baba Yahaya, P.E.
– FCC President

In last month's message, I encouraged our readers who have not yet joined NSPE to consider doing so for the many benefits associated with membership and the protection of our profession. In coordination with NSPE, OSPE protects you from political, legislative, administrative, and legal challenges to Ohio's PE laws. We present the professional Engineer's point of view to public officials and their staffs, track legislation impacting engineering, initiate effective legislation, provide testimony, and facilitate constructive government action at all three levels of government: local, state and federal. In line with these efforts, FCC-OSPE is planning an in-person "Legislative Update" event this month. The event will feature state legislators from chapter areas as panelists on discussions on passed and pending legislative bills of interest to OSPE as well as afford our members the opportunity to meet and greet our legislators. These programs are free to members of NSPE and OSPE/FCC and I encourage all to endeavor to attend. Refer to the programs section of this publication for details of this event and our regular monthly continuing professional development (CPD) virtual program.

Our CPD hour program in November featured Brian Swain, Jared Jajack, and Eric Hooper, all from American Electric Power, presenting on the topic "Columbus Underground HPFF vs XLPE Cables and Recent Applications". I would like to thank Brian, Jared and Eric for taking the time to share their project experience with us.

Our chapter continues fund a college scholarship program meant for chapter area students interested in a career in Engineering. The Engineers Foundation of Ohio (EFO) in November opened applications for this and the other college scholarships the foundation implements. Application deadline is January 15, 2022. Refer to the EFO scholarship announcement included in this publication for more information on the scholarships.

To celebrate our chapter's history and highlight the chapter visionaries that worked to establish it, this issue includes an article previously prepared by Leon Winget, PH.D., P.E. (Deceased) regarding the formation of Franklin County Chapter that he compiled from FCC history.

Merry Christmas

OSPE-FCC December Virtual Program

Date: Thursday, December 16, 2021
Location: **Zoom Meeting**, 12:00pm -1:00pm
Registration: Registration closes at 5:00 pm, December 13, 2021

Visit www.fccospe.org to register on online. Be sure to include your membership number.

After registration is closed and prior to the presentation a **Zoom** link will be sent to the registrants.

Cost: Cost $10.00, Members of NSPE and members OSPE/FCC are free.

Title: **"P&C Engineering 101: High Voltage Power Protection Basics"**

Abstract: This seminar serves as an introduction to the principles of protection and control (P&C) as applied to electric utility high voltage stations. Topics include the general philosophy of power grid protection, how to identify zones of protection, the role of instrument transformers in relaying, the methodology of relay operation, and an overview of different types of relays and protective schemes. This foundational overview provides vocabulary and P&C engineering basics to enable curious participants to understand more advanced relaying topics and technologies in the future. The target audience is non-experts, with all disciplines and interested individuals welcome.

Biography: Colleen Konsavage, PE, is an engineering supervisor at Commonwealth Associates, Inc, an engineering and consulting firm that specializes in power industry applications. Colleen holds a BSE degree in systems and control engineering from Case Western Reserve University and an MS degree in nuclear engineering from The University of Pittsburgh. Ms. Konsavage is a trustee on the board of the National Society of Professional Engineers (NSPE)- Franklin County Chapter, an executive officer of the Columbus Section of IEEE, and a member of the IEEE PES PSRC working group D43, focusing on the effect of distribution automation on protective relaying. Colleen is a registered professional engineer in Ohio, Illinois, and Missouri. Interests include carbon-free energy, control systems, smart grid technology, and STEM outreach/membership.

A certificate for 1 hour of Professional Development for attending the program will be emailed to you.

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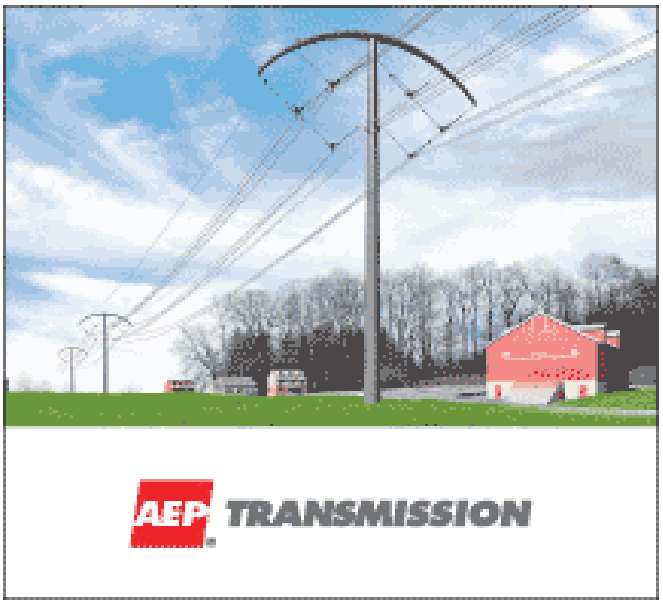

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WE OWN IT.

Status of the Ohio Construction Market, October 2021

Ken Goodson, P.E., LEED AP, HFDP

The last quarter of 2021 finds some markets improving. The Ohio Department of Transportation, notably, indicated that their budget for 2021 and on had returned to pre-pandemic levels. They also noted a-number-of projects in Development, with quite a few being new phases of multiphase projects. Among them were:

- SR 235 Improvements $7.5 Million
- I-75 Express – Early in Development $0
- I-75 Reconstruction - DiSalle Bridge $350K
- I-70/71 Continuation $480 Million (Out of a $1.4 Billion project)

A significant number of developments are in planning or construction, as well, from warehouses in Canal Winchester, Healthcare expansions. Notable projects include:

- Kroger Development on Cleveland Ave. downtown,
- Pickerington Medical Center – Cancer, Maternirty wards
- Long St. Development
- Weinland Park Development
- Italian Village Development
- $15 Million East Side Apartments
- Amazon Data Center – Hilliard, Ohio
- Ronald McDonald House, $18 Million addition
- Peloton Factory in Troy,
- $25- 100 Million PPE plant, Grove City, Ohio

It's also worth noting that Data from Turner Construction's latest Cost Index indicate that non-residential Building construction increased in cost from the Third Quarter by 3.06%. This was in the range of 10-15% above prices from the 4th Quarter of 2019, before the Pandemic.

KORDA

A History of Franklin County Chapter of Ohio Society of Professional Engineers

By Leon Winget, PH.D., P.E. (Deceased)

Paraphrasing an old adage: "One does not know where one is going if one does not know where one has been." hence, I thought that it might be good to revisit where the Franklin County Chapter had been and its origin. The following excerpts, greatly, from the "History of Franklin County Chapter Number 20; Ohio Society of Professional Engineers", by Frank T. Geyer, P.E. Mr. Geyer composed the history in 1972. He supplemented the history in 1976, covering the more current events of the time.

I would be remiss if I did not also include the late Mr. Frank Weimer P.E., who continued the history through the 1990's. So, I write this section in honor of Mr.'s Geyer and Weimer intense dedication to the Chapter. God bless them both.

The sentences and phrases in quotes (" ") are direct passages from Mr. Geyer's history. Most of the remainder is paraphrasing on my part. I have not contributed any new data to this brief introduction of Franklin County Chapter (FCC).

(The early years!) "In the autumn of 1879, a group of county surveyors met to discuss the possibility of organizing an association. A letter was sent to all county surveyors in the state describing the purpose and advantage of the organization." A convention of the county surveyors was held in Columbus in January 1880.

Sometime previous to the 4th Annual Meeting convened in January 1883, the name of the association was designated "The Ohio Society of Surveyors and Civil Engineers."

In January 1888, a separate group known as the "Columbus Engineering Society" was granted permission by the Ohio Society of Surveyors to meet under their own charter. This organization later became known as the "Engineers Club of Columbus".

(Fast forward!) "The first Engineering Registration Law in the U.S. was enacted by the Wyoming legislature in 1907. A similar law was adopted in Ohio in 1933." "The purpose of the law is:
…to safeguard life, health, and property by requiring the registration of practicing Engineers, establish minimum qualifications for registration…" The Law also included the means and needs of verifying the qualifications of the registrants.

Following the enactment of the Ohio Law, a group of Columbus engineers recognized the need to identify registered profession engineers and organized a separate section known as the "Franklin County Society of Professional Engineers" affiliated with the new and growing National Society of Professional Engineers, located in Washington D.C. The first recorded minutes available were in March 1936. The section met monthly and performed the usual functions of a local chapter of a technical society.

In April 1937, a resolution was proposed to the effect that the Franklin County Society of Professional Engineers disband and turn over their records and funds to and combine with "The Engineers' Club of Columbus". This resolution failed.

In June 1940, another resolution was proposed which was based on the report of a committee created in the summer of 1937 especially for this purpose. The committee recommended the establishment of a Registered Engineers and Surveyors Section of the Engineers' Club of Columbus. This resolution was favorable to the membership and was tentatively accepted. **– Continued, page 5**

A History, continued –

Meanwhile the Engineers Club revised its constitution in October 1937, requiring all members to be registered. They also created a separate section known as the Professional Engineers' Section of the Club. At that time there were 975 registered engineers in Franklin County. The membership in the Engineers' Club of Columbus was 266 of which 208 were registered engineers.

An OSPE Executive Session was held on October 1940, to consider a resolution presented by the Franklin County Society of Professional Engineers. The resolution was favorably considered. The Engineers' Club of Columbus proposed that the FCC organized as separate group under the OSPE and be known as the Franklin County Chapter of OSPE. The interested parties accepted the proposal and thus "Franklin County Chapter of Ohio Society of Professional Engineers" was brought into being.

Ohio Society of Professional Engineers
FRANKLIN COUNTY CHAPTER
is hosting a

LEGISLATOR UPDATE MEETING

This luncheon will allow multiple state legislators an opportunity to discuss various bills at the statehouse that they have supported that help protect our PE license.

The meeting is free to attend for OSPE-FCC members.

Meeting will be at the Elevator Brewing Company.

RSVP is requested.

AGENDA

12:00pm Lunch

12:30pm Discussion of Legislation

1:00pm Panel Discussion

2:00pm Social Hour

The Elevator Brewing Company
161 N High St, Downtown Columbus, OH 43215

RSVP is requested (ddoherty@cecinc.com).

NSPE-OH™ FRANKLIN COUNTY CHAPTER
OHIO SOCIETY OF
PROFESSIONAL ENGINEERS

QUESTIONS? email: ddoherty@cecinc.com

ENGINEERS FOUNDATION OF OHIO

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* Scholarship Announcement *

To: Ohio High School Guidance Counselors
Scholarship Application Requests

From: Terry McClain, P.E., Scholarship Committee Chairman
Tim Schaffer, Executive Director

Re: Scholarship Program *(Application Deadline is Jan. 15 annually)*

To obtain the current **Engineers Foundation of Ohio Scholarship Brochure** and **Application** please go to the following website: **www.ohioengineer.com.** Click on "Students & Educators," then on "Programs for Students," then on "Scholarships." You may print the application and brochure information from PDF files. The *application may then be copied as needed* for distribution to students. These scholarships are offered to outstanding high school and college students throughout Ohio who desire careers in engineering.

The scholarships are sponsored by the Engineers Foundation of Ohio (EFO) in conjunction with the Ohio Society of Professional Engineers (OSPE) and the National Society of Professional Engineers (NSPE).

* This year EFO has more than *$33,000* in scholarships available. *

To be eligible for these scholarships, a student must meet all of the following criteria:

- be a graduating high school senior *(exceptions noted in individual scholarship descriptions)*;
- have at least a 3.0 (A=4.0) grade point average;
- meet the minimum SAT (Math=600, Reading or Composition=500) or ACT (Math=29, English=25) test scores as set by the National Society of Professional Engineers; &
- be a citizen of the United States and a permanent resident of the State of Ohio.

Additional criteria is specified for some scholarships. Please read each description carefully.

Thank you for your help in promoting EFO's scholarship program. If you have any questions, please feel free to contact EFO at efo@ohioengineer.com.

2021-2022 CALENDAR

DATE	TIME	DESCRIPTION
Sept. 14	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Sept. 16	12:00 p.m.	Program: Strategies for Learning Through the Deployment of New Grid Technologies, with Presenters: James Wolf, Morgan Love - (Virtual)
Oct. 8	5:00 p.m.	Deadline for October Columbus Engineer
Oct. 12	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Oct. 21	12:00 p.m.	Program: Leveraging "Smart" Technology to Maximize Use of Public Parking in Historic District, with Presenters: Scott Tourville, Jennifer Alford - (Virtual)
Nov. 4-5		EFO Fall CPD Conference
Nov. 8	5:00 p.m.	Deadline for November Columbus Engineer
Nov. 9	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Nov. 18	12:00 p.m.	Program: Columbus Underground HPFF vs. XLPE Cables and Recent Applications, with Presenters: Brian Swain, Jared Jajack and Eric Hooper – (Virtual)
Dec. 6	5:00 p.m.	Deadline for December Columbus Engineer
Dec. 14	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Dec. 16	12:00 p.m.	Program: P&C Engineering 101: High Voltage Power Protection Basics, with Presenter: Colleen Konsavage
Jan. 10	5:00 p.m.	Deadline for January Columbus Engineer
Jan. 11	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Jan. 20	12:00 p.m.	Program: Space Resources and Additive Manufacturing: A Flexible Solution for Future Long-Duration Space Exploration, with Presenters: TBD - (Virtual)
Feb. TBD	8:00 a.m.	Regional MathCounts Competition @ CSCC
Feb. 14	5:00 p.m.	Deadline for February Columbus Engineer
Feb. 15	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Feb. 24	11:30 a.m.	Program: E-Week Luncheon
Feb. 23	8:00 a.m. – 3:00 p.m.	Engineer for a Day Program
Mar. 2	5:00 p.m.	Deadline for March Columbus Engineer
Mar. TBD	8:15 a.m. – 4:00 p.m.	Ohio MathCounts Competition (OSPE, see www.ohioengineer.com)
Mar. 8	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Mar. 17	12:00 p.m.	Program: TBD - (Virtual)
Mar. TBD		District Science Day @ CSCC
Apr. 7	5:00 p.m.	Deadline for April Columbus Engineer
Apr. 11	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Apr. 21	12:00 p.m.	Program: The Grid of Tomorrow: IBRs and Microgrids for Power System Stability, with Presenters: TBD - (Possible Virtual)
May 5	12:00 p.m.	Deadline for May Columbus Engineer
May 10	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
May 19	6:30 p.m.	Chapter Officer Installation & Awards Dinner
May 30	12:00 p.m.	Deadline for June Columbus Engineer
June 14	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
June 16	12:00 p.m.	Program: TBD - (Possible Virtual)
July TBD	(TBA)	FCC Budget Meeting - Location to be announced

Civil & Environmental Consultants, Inc.
Address: 250 Old Wilson Bridge Road, Suite 250, Worthington, Ohio 43085

WHERE DO I GET MORE INFORMATION?

FCC-OSPE President E-mail & Phone:	baba.yahaya2@terracon.com	(614) 328-5209
FCC-OSPE WEBSITE	www.fccospe.org	
OSPE WEBSITE:	www.ohioengineer.com	
NSPE WEBSITE:	www.nspe.org	
To volunteer to help with MATHCOUNTS:	benjamin_brown68@yahoo.com	(614) 519-8978
To volunteer to help with Science Day:	yogesh.rege@terracon.com	(614) 863-3113
To volunteer to help with OSU Student Chapter:	mccarthy.226@osu.edu	(614) 247-1561
To volunteer to help with Imagine Engineering:	devonseal1@gmail.com	(614) 208-6986
FCC Luncheons / Programs:	ddoherty@cecinc.com	(614) 359-6321
New Members / Membership Application	www.nspe.org or www.ohioengineer.com	(614) 223-1144

NSPE-OH ™ FRANKLIN COUNTY CHAPTER
OHIO SOCIETY OF PROFESSIONAL ENGINEERS

2021-2022 OFFICERS, TRUSTEES & COMMITTEE CHAIRS

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NEW	**FCC-OSPE Website**			www.fccospe.org
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