



Columbus Engineer

Franklin County Chapter

A chapter chartered by the Ohio Society of Professional Engineers.

P.O. Box 69
Reynoldsburg, OH 43068-0069

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President's Message

Dustin Doherty, P.E., CPESC
– FCC President

I hope you have seen some of the email traffic over the course of the last month, including NSPE's proposed revisions to the Engineers' Creed. "The Creed was adopted by NSPE in 1954 as a short statement with respect to the philosophy of service. It is widely used in NSPE, state society, and local chapter officer installation ceremonies, licensure certificate presentations, and engineering school graduations. NSPE has heard from members questioning the inclusivity of the Engineers' Creed. More recently, as NSPE leaders have conducted installation ceremonies throughout the country, they have again heard concerns about its inclusivity. NSPE, the profession, and society as-a-whole have changed greatly in the 67 years since the Creed's adoption. The proposed changes to the Engineers' Creed are the latest steps in the Society's evolution."

If you have not already, I ask that you weigh in on these changes with your comments.

Engineers' Creed

As a Professional Engineer, I dedicate my professional knowledge to the advancement and betterment of ~~human welfare~~ the greater good.

I pledge:

- *To give the utmost of performance;*
- *To participate in none but honest enterprise;*
- *To live and work according to ~~the laws of man—and~~ the highest standards of professional conduct;*
- *To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations.*

In humility, ~~and with the need for Divine Guidance,~~ I make this pledge

Additionally, NSPE Government Relations Staff has recently released a series of videos called "Committee Corner" (https://nspe.quorum.us/committee_corner/). These videos are expected to be released every Tuesday when Congress is in session, and is intended to provide an inside look at Capitol Hill's legislative activity affecting professional engineers. Videos will be posted every other week while Congress is in recess. Please take the time to review these videos and see all the great things that NSPE is doing on our behalf.

- Continued, Page 2



President's Message – Continued

Current topics include: Biden Administration's policy priorities through the lens of a Transportation and Infrastructure Committee, or Senate Environment and Public Works Committee.

Also, please take note of the OSPE Legislative Update that provided news on Ohio's transportation and infrastructure. "According to President Joe Biden's administration, 1,377 bridges in Ohio and over 4,925 miles of roads are in poor condition. The administration released state-by-state fact sheets earlier this week as it sells its proposed American Jobs Plan infrastructure bill to the public in the face of Republican opposition. The fact sheet for Ohio notes the state's "C-" grade on the most recent American Society of Civil Engineers infrastructure report card. The administration also said commute times in Ohio have increased by 5.7 percent, and on average, each driver pays \$506 per year in costs due to driving on roads in need of repair. It notes that the proposed infrastructure bill would spend \$600 billion on transportation infrastructure, including \$115 billion repairing roads and bridges." These are some staggering facts, and I think we all hope that we can contribute in some way to the improvement of this infrastructure in the coming years.

Lastly, I hope your spring and early summer are relaxed and that you get to take some time with your family or friends. I am very excited and look forward to seeing everyone again soon.



Be well!
Dustin



Happy
Memorial Day

**All-Ohio Engineering Conference,
June 10-12, Online**

Save the date for



This conference features:

- **Virtual/online format! Learn from home or your office. No travel or overnight expenses.**
- 12.5 CPD Hours including fantastic technical sessions and 2.0 hours of professional ethics to help you meet Ohio's CPD requirements. Engage in compelling, quality seminars.
- A Conference Discount for OSPE Members
- Sponsor Recognition
- The OSPE Annual Meeting, the EFO Annual Meeting and a joint installation ceremony
- Awards Program

****Special thanks to our host, Northeast Chapter!****

Engineers Programs: 12.5 CPD Hours Available!

- Education programs begin on Friday, June 11 and run through Saturday, June 12. Be sure to mark your calendar for CPD education.

Seminar Handouts

- The handouts for this Conference will be available to you by Internet access.

To Register Contact OSPE: 614-223-1144, or ospe@ohioengineer.com



OSPE-FCC May Virtual Program

Date: Wednesday, May 12, 2021

Location: Zoom Meeting, 12:00pm -1:00pm

Registration – Registration closes at 5:00 pm, May 10, 2021. Visit www.fccospe.org to register 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: “PFSA – The Circular Environment”

Presenter: Ivan Cooper

Abstract: Sometimes it is what you do not know that can hurt you. PFAS is often called the “Forever Chemical” because of the inability to break down in the environment. PFAS is contained in water supplies, a wide variety of consumer and industrial products and chemicals, firefighting foam, and is found in wastewater discharges, biosolids, and landfill leachate. Much focus is currently on PFAS in drinking water, with a significant difference between Federal guidelines and often much stricter standards in a number of states, leading to consumer confusion and a lack of confidence in the regulatory process.

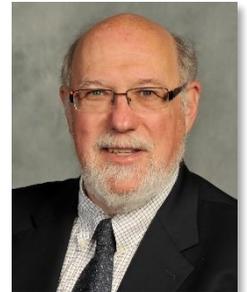
Cycling exists between inputs to landfills and the discharges from landfill leachate. Flows to wastewater pretreatment plants from a variety of source including landfill leachate contain PFAS. Wastewater treatment plant biosolids are sent to landfills, undergo thermal destruction, or are spread on agriculture's land.

These practices may ultimately recycle PFAS to the environment; add to wastewater treatment plant's

influent PFAS loading, end in agricultural products, or impact surface or groundwater. We found that there is a significant reduction in volumes and types of PFAS entering compared to discharging from landfills. Therefore, we speculate that landfills may reduce PFAS toxicity, sequester PFAS, and provide a societal benefit.

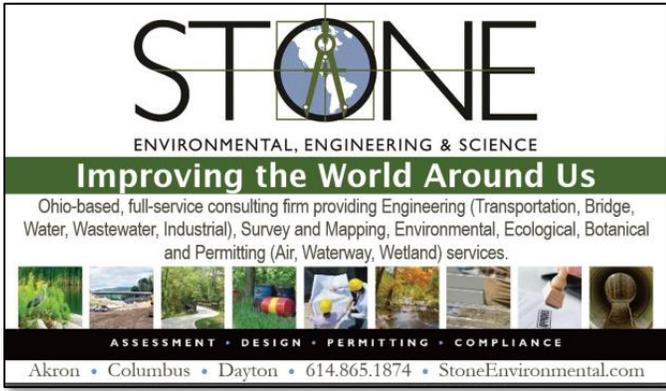
There is significant interest in reducing PFAS discharges to the environment by destruction and separation technologies currently in use and being developed. These include ion exchange, activated carbon adsorption, reverse osmosis, and a variety of innovative technologies. A summary of technologies shows promise of separating, destroying, and ultimately reducing PFAS exposures.

Biography: Mr. Cooper is the Water and Wastewater Practice Lead for Civil & Environmental Consultants. He designed over 100 leachate, industrial, and municipal wastewater treatment plants. He has a BSCE from Union



College and a Master's in Civil Engineering from Northwestern University. He is a PE in 19 states; and is a BCEE with a Wastewater Treatment Specialty. He is chair of SWANA's Leachate and Landfill Liquids Management Committee. He serves on the Water Environment Federation's Industrial Waste Committee; and is a contributing author to WEF's new book on PFAS. He received the 2017 Roy F. Weston Award – for contributions in solid waste technology and management, and the 2019 Distinguished Individual Achievement Award from the Solid Waste Association of North America. He served as a subject matter expert on wastewater and solid waste for the US State Department in the Palestinian West Bank and in Morocco.





NCEES announces new Records option for military families seeking comity licensure

NCEES is pleased to announce that it has added a new option to the NCEES Records program to assist military families with the comity licensure process. Starting April 27, active-duty military and their spouses are eligible to transmit their NCEES Record to a state licensing board at no charge when military orders require them to relocate to that state.

The NCEES Records program is designed for currently licensed engineers and surveyors who are looking for an easier and faster way to complete the comity licensure process in another U.S. state or territory. Once established, an individual's Record includes most—if not all—of the materials needed to apply for comity licensure in all 50 states, the District of Columbia, Guam, the Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands.

“This new no-cost option will help members of the military and their spouses by simplifying and expediting the comity licensure process in their new state,” explained NCEES Chief Executive Officer David Cox. “Military transmittals will include a special designation to alert the receiving licensing board of their priority status. Applying for comity licensure through the NCEES Records program can often be completed and a license issued within a matter of days.”

An individual's NCEES Record is a verified compilation of his or her official academic transcripts, full employment history, professional references, and exam results. It is commonly used by licensed engineers and surveyors to document completion of the education, experience, and examination requirements shared by all U.S. engineering and surveying licensing boards. In 2019–20, almost 40,000 engineers and surveyors transmitted their information to a state licensing board through the program.

Patty Mamola, P.E., executive director of the Nevada State Board of Professional Engineers and Land Surveyors noted, “Comity licensure is one of the most critical issues facing licensing boards today. Having additional options that allow us to specifically support our military and ease their transition to a new state is huge.”

Active-duty military and their spouses who are interested in learning more about the NCEES Records program or how to use it when they are re-stationed in a new state or territory should visit ncees.org/records or email military@ncees.org for more information.

(Excerpted from NSPE DAILY DESIGNS, April 30, 2021)

The advertisement for Terracon Consulting Engineers and Scientists features a collage of images including a modern skyscraper, industrial machinery, and a construction site. The company name "Terracon" is prominently displayed in a large, bold, red font. Below the name, the text "Consulting Engineers and Scientists" and "Offices Nationwide • terracon.com" is written. The contact information for Kevin M. Ernst, P.E., Office Manager, is provided: "Kevin.M.Ernst@terracon.com" and "800 Morrison Road Gahanna OH 43230". The phone number "(614) 328 5168" and the website "terracon.com/Columbus" are also listed. At the bottom, a black banner contains the text "Environmental • Facilities • Geotechnical • Materials" with small orange squares separating the words.





Shut U.S. coal plants seen as potential sites for small reactors

Recently shut U.S. coal-fired power plants could serve as sites for a new generation of small nuclear reactors, the head of the nation's largest public power utility and a U.S. senator from West Virginia said on Wednesday.

Hundreds of coal plants have been shutting due to competition from cheap natural gas and falling costs for renewable power, resulting in massive job losses in communities that depend on mining and power generation. Since 2010 more than 250 U.S. coal-fired power plants have shut.

"I see those sites as very viable small modular reactor (SMR) sites," Jeff Lyash, president and chief executive of the Tennessee Valley Authority, or TVA, said during a virtual Atlantic Council event.

TVA first started using coal-fired plants in the 1950s, but has begun to retire older, less efficient units in keeping with its commitment to generate cleaner energy. It has three traditional nuclear reactors.

Shut coal power plants would be ripe for SMR development because of their available water resources and existing power grid connections, Lyash said.

SMRs are regarded by some as a critical carbon-free technology that power grids will need to supplement intermittent sources like wind and solar. They have been touted by the last three U.S. administrations, but face high costs and delays.

"Some of our better manufacturing sites are the coal-fired power plants," said Senator Joe Manchin, a Democrat from West Virginia. "You could come online much quicker and we could accomplish this at a much faster rate than anything else we could do," he said about the SMR potential.

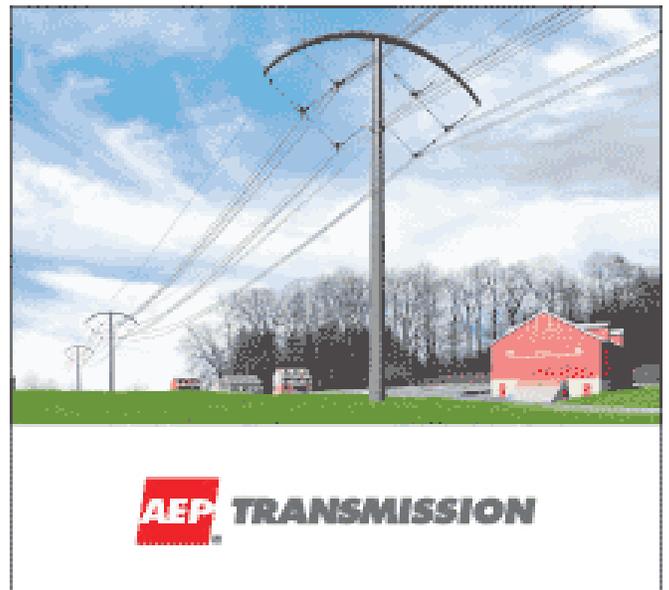
The first U.S. small-scale project, NuScale Power LLC, majority-owned by construction and engineering firm Fluor Corp, is planning to develop 12 60-megawatt modules at the Department of Energy's Idaho National Laboratory.

The estimated cost has shot to \$6.1 billion, up from \$3.6 billion in 2017.

Last year, the Trump administration approved \$1.35 billion for the project over 10 years, funding that depends on annual approval by Congress, on top of \$230 million the DOE had pumped into the project since 2013.

This year, Montana's state senate approved a study on building SMRs at old coal plants.

(Excerpted from NSPE DAILY DESIGNS, April 29, 2021 with photographs and links removed)



2020-2021 CALENDAR

DATE	TIME	DESCRIPTION
Nov. 10	12:00 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Nov. 19	11:30 a.m.	Program: No Program (Virtual)
Dec. 5	5:00 p.m.	Deadline for December <i>Columbus Engineer</i>
Dec. 8	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Jan. 11	5:00 p.m.	Deadline for January <i>Columbus Engineer</i>
Jan. 12	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Jan. 21	11:30a.m.	Program: TBD (Virtual)
Jan. 30	5:00 p.m.	Deadline for February <i>Columbus Engineer</i>
Feb. 5-6	1:00 p.m.	Regional MathCounts Competition – (Virtual)
Feb. 8	5:00 p.m.	Deadline for March <i>Columbus Engineer</i>
Feb. 9	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Feb. 15–Mar. 1		District Science Day @ CSCC (Virtual)
Feb. 21-27		National Engineers Week (see www.eweek.org)
Feb. 24	8:00 a.m. – 3:00 p.m.	Engineer for a Day Program - CANCELLED
Feb. 25	11:30 a.m.	Program: E-Week Luncheon: “Imagineering Tomorrow” (Virtual – GoToWebinar) Presenters: Joanna Pinkerton, Many Bishop
Feb. 26	6:30 p.m. – 8:00 p.m.	Joint Societies Meeting NSPE-FCC & IEEE Young Professionals
Mar. 9	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Mar. 17	11:00 a.m. – 12:00 p.m.	Program: Engineering Ethics – Presenter: Dustin Doherty (Virtual)
Mar. 25	7:00 p.m.	Ohio MathCounts State Competition (Virtual)
Mar. 30	5:00 p.m.	Deadline for April <i>Columbus Engineer</i>
Apr. 7	12:00 p.m. – 1:00 p.m.	Program: “Overview of Municipal Wastewater Treatment Technologies and Processes” – Presenters: Travis Adams and Matt Fluharty (Virtual)
Apr. 13	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Apr. 14	5:00 p.m.	Deadline for May <i>Columbus Engineer</i>
May 11	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
May 12	12:00 p.m.	Program: PFAS – The Circular Environment (Virtual), Presenter: Ivan Cooper
May 9-10		National MathCounts Competition – Washington, D.C.
May 20	6:30 p.m.	Chapter Officer Installation/ Awards Dinner
May 24	5:00 p.m.	Deadline for June <i>Columbus Engineer</i>
June 8	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
June 16	12:00 p.m.	Program: Nashville Zoo Stormwater Retrofit (Virtual), Presenter: Steve Casey
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?

OSPE-FCC President E-mail & Phone:	ddoherty@cecinc.com	(614) 359-6321
OSPE-FCC 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) 221-0678
New Members / Membership Application	www.nspe.org or www.ohioengineer.com	(614) 223-1144



2020-2021 OFFICERS, TRUSTEES & COMMITTEE CHAIRS

	Name	Phone # (w) or (h)	Cell Phone #	E-mail Address
President	Dustin Doherty, PE, CPESC	614-310-2075 (w)	614-359-9321 (cell)	ddoherty@cecinc.com
Vice President/Pres. Elect	TBD			
Chapter Secretary	Yogesh Rege, PE	614-328-5209	614-517-7864 (cell)	Yogesh.Rege@terracon.com
Treasurer	Steve Day, PE	614-876-7525 (w)	614-531-2858 (cell)	lday1@columbus.rr.com
Past President	Dustin Doherty, PE, CPESC	614-310-2075 (w)	614-359-9321 (cell)	ddoherty@cecinc.com
Administrative Assistant	Dawn Morrison	614-328-5148 (w)	614-313-3814 (cell)	dawn.morrison@terracon.com
	NEW FCC-OSPE Website			www.fccospe.org
OSPE Executive Director	Tim Schaffer	614-223-1144 (w)		exec@ohioengineer.com
OSPE/EFO Staff	Pam McClure	614-223-1144 (w-OSPE)		admin@ohioengineer.com
	Holly Ross	614-223-1177 (w-EFO)		pr@ohioengineer.com
VICE-PRESIDENT	TRUSTEE/COMMITTEE	CHAIRPERSON	TELEPHONE	E-MAIL
Baba Yahaya, PE	Vice-President	Baba Yahya, PE	614-328-5209 (w) 614-517-7864 (cell)	Baba.Yahaya2@terracon.com
	Programs/CPD/Activity	Vacant		
	Membership	Dustin Doherty, PE, CPESC	614-310-2075 (w) 614-359-6321 (cell)	ddoherty@cecinc.com
	Young Engineer Trustee	Colleen Konsavage, PE	614-758-3048 (cell)	Colleen.Konsavage@cai-engr.com
	Retired Engineers Trustee	TBD		
	PEHE Trustee	Tim McCarthy, PE	614-315-9551 (cell) 614-247-1561 (w)	mccarthy.226@osu.edu
	OSU - Student Chapter Liason	Tim McCarthy, PE	614-670-1175 (cell) 614-247-1561 (w) 614-670-1175 (cell)	mccarthy.226@osu.edu
S. Rao Chitikela, PE	Vice-President	S. Rao Chitikela, PE	412-310-9452 (cell)	srao.chitikela@gmail.com
	Science Day (District)	Yogesh Rege, PE	614-328-5137 (w) 304-951-7874 (cell)	yogesh.rege@terracon.com
	Scholarship	Joe Sullivan, PE	614-486-4383 (w) 614-561-5447 (cell)	joe.sullivan@stantec.com
	Columbus Engineer - Editor	Howard Jones, PE	614-209-3289 (h) 614-209-3289 (cell)	hrjones63@yahoo.com
	Engineers Week	CR Weaver, PE	614-645-7100 (w) 614-946-2961 (h)	CRWeaver@columbus.gov
	Engineer For A Day	Charles Ohrstedt, PE	614-937-1512 (cell)	mohrstedt@sbcglobal.net
	PEG Trustee	Ron Trivisonno, PE	614-328-5137 (w) 614-395-7098 (cell)	ronald.trivisonno@terracon.com
Vacant	Vice-President	Vacant		
	MATHCOUNTS Chair	Ben Brown, PE	614-818-4900 (w) 614-519-8978 (cell)	ben.brown@ibigroup.com
	Awards/Citations	Tina Sutermeister, PE	740-964-0828 (h) 614-537-7660 (cell)	tsuterm@embarqmail.com
	Legislative	Steve Day, PE	614-876-7525 (w) 614-531-2858 (cell)	lday1@columbus.rr.com
	PEI Trustee	Richard Smelker, PE	614-933-2236 (w)	rdsmelker@aep.com
	EFO Liaison	Steve Day, PE	614-876-7525 (w) 614-531-2858 (cell)	lday1@columbus.rr.com
	Chapter Directory	Vacant		
Mehrdad Rowhani, PE	Vice-President	Mehrdad Rowhani, PE	614-328-1197 (w) 773-517-1036 (cell)	Mehrdad.Rowhani@terracon.com
	Imagine Engineering Contest	Devon Seal, PE	614-208-6986 (cell)	devonseal1@gmail.com
	Auxiliary Trustee	Barbara Fuller	614-880-9221 (h)	bfuller@columbus.rr.com
	OSPE Director	Tina Sutermeister, PE	740-964-0828 (h) 614-537-7660 (cell)	tsuterm@embarqmail.com
	Constitution & By-Laws	Devon Seal, PE	614-208-6986 (cell)	devonseal1@gmail.com
	PEPP Trustee	Greg Nortz, PE	614-790-0029 (cell)	gregnortz@otiscoengineering.com
	PEPP Trustee	Nathan Abele, PE	614-793-2226 (w) 614-746-7243 (cell)	Nabele@smeinc.com
	PEC Trustee	Ken Goodson, PE	614-443-1178 (w)	kengoodson@hotmail.com



FIRST CLASS



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




BUILT FOR
VERSATILITY

We are engineers. We are scientists.
We are designers. S&ME has the versatility
you need and the experience that matters.

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