



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



Happy New Year! I hope that everyone enjoyed a great holiday season and is ready for this New Year.

We have very exciting upcoming programs and events planned for February and beyond. Please stay tuned for these postings and flyers forthcoming.

I am so very thankful to be a member in this organization, as I believe this is the one organization that assists professional engineers in ways we take for granted. A professional engineer is obligated to protect the health, safety, and welfare of the public. Since 1934, NSPE has served as an advocate for licensed professional engineers across the nation and assists them in upholding the duty of protecting the public. The Society also supports members and state societies to combat efforts to devalue engineering licensure and to expand the role of licensed engineers to improve public safety. Membership in this organization gives engineers the tools and services they need to be better informed and better connected within their professional community. Additionally, if you did not know, your membership provides many benefits, including the following:

1. Online Seminars

Fifteen (15) free online seminars, each including continuing education certificates.

2. PE Institute

The PE Institute has a catalog of live educational events, webinars, and conferences for the professional engineer. On-demand courses provide a time-effective option for engineers who want to sharpen their knowledge and skills from standards management to professional ethics.

3. Connections

Each Chapter helps to build the community and connect with colleagues, by providing a platform and place for knowledge exchange, content curation, collaboration, and professional networking.

4. Networking Opportunities

Through Interest Groups, blogs, communities, and live events, members can reach engineers across the country and in their local area. Each year, the Professional Engineers Conference brings together engineering colleagues, clients, and vendors to make important connections at vibrant locations around the country.

5. Advocacy & Outreach

Through its government relations efforts, NSPE projects a powerful voice advocating the interests of the engineering profession. Resources available in the Legislative Action Center allow NSPE members to contact legislators and track legislation of interest to them as engineers.

6. News of the Profession

Available free to members, PE magazine the flagship publication of the National Society of Professional Engineers is published six times per year.

7. Career Advancement

NSPE's Job Board and Career Center helps PEs make their next career move and assists employers in finding licensed PEs and top engineering talent.

8. Partnerships

Your NSPE membership entitles you to deep discounts on a wide variety of publications, standard contract documents, and other services offered by NSPE's benefit partners.

Please take the time to reach out to others in your company and industry and let them know about our message and benefits and see if they too would like to be a part of this Society. I can tell you first-hand how rewarding it is to serve on the board. We are seeking candidates to fill several open positions; and could even use assistance with planning efforts for several positions that are currently filled.

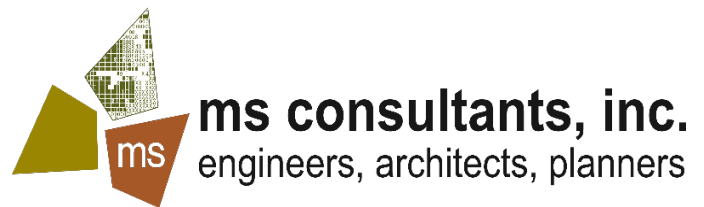
Board members and volunteers are critical to advancing our initiatives, and we are delighted when others within this organization want to take a more

dynamic role. Thank you for your continued involvement in the Franklin County Chapter. If you are interested in getting more involved with the Chapter, please reach out to me or any of the other Board members to discuss opportunities.

In closing, please:

Follow what is happening,

Become more involved, and Make your voice heard!



E-Week 2021 Information

The E-Week Luncheon “Imagineering Tomorrow” is scheduled for February 25, 2021. This will be a virtual luncheon hosted on “GoToWebinar”. The E-week committee has scheduled presenters Joanna Pinkerton (COTA) and Mandy Bishop (COC – Smart),

The E-week Committee will be reaching out to solicit corporate sponsors/donations. A Save the Date flyer will be issued soon.



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2021 CENTRAL OHIO ENGINEERS WEEK VIRTUAL LUNCHEON

Imagineering Tomorrow

presented by

Mandy Bishop, PE, SI, Smart Cities - The City of Columbus
&

Joanna Pinkerton, PE, The Central Ohio Transit Authority

Thursday, February 25, 2021

PROGRAM: 12:00pm-1:30pm

Virtual Luncheon

Registration – <https://attendee.gotowebinar.com/register/2407463583603025424>

FCC-OSPE AWARD NOMINATIONS BEING ACCEPTED

Do you know a fellow PE colleague that has the characteristics of an “Uncommon Engineer”? Do you know a fellow PE colleague that exhibits exceptional Engineering Management skills? Do you know a member of either the Ohio House of Representatives or the Senate that supports the engineering profession? Consider making a nomination for these awards. Please send your nominations to Tina L. Sutermeister, P.E., F.NSPE at tlsuterm@embarqmail.com. Your nomination will be presented to the FCC-OSPE Board for consideration for the Franklin County Chapter award. And all FCC-OSPE Award recipients are then submitted for consideration for the State Level awards. Don't Procrastinate – Make your Nomination Today!

Nominations are being accepted for the following awards:

1.) OSPE Uncommon Engineer Award - This award recognizes the long and distinguished service to the engineering profession; devotion and commitment to the state society and the local chapter; high standards of professionalism; and guidance in the role of a team player. The candidate must be a registered PE and must be a member in good standing with OSPE.

2.) OSPE Legislator of the Year Award - This award recognizes a state legislator who has given significant support to the engineering profession, allowing the profession to maintain its commitment to the health, safety and welfare of the public. The award candidate must be a member of the Ohio House of Representatives or of the Ohio Senate.

3.) OSPE Professional Engineering Management Award -This award recognizes leadership, organizational, and management skills in an engineering environment. This award recipient has years of successful experience in Engineering management at various levels and has been instrumental in introducing a new process; or change to an existing process within the Engineering organization that he/she has successfully managed.



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Environmental Facilities Geotechnical Materials

How Much Money Will Your State DOT Receive from Latest COVID Relief Bill?

Division M of the Coronavirus Response and Relief Supplemental Appropriations Act, 2021 provides full funding for highway and airport construction projects in 2021 and \$10 billion allocated to the states in support of emergency relief for State DOTs.

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After months of negotiations, Congressional leadership reached agreement on a massive legislative package (H.R. 133, Consolidated Appropriations Act, 2021) that combines an FY 2021 omnibus appropriations bill that funds the federal government through September 2021 and a \$900 billion supplemental coronavirus package that includes crucial assistance in aid for the transportation sector as well as other industries struggling amid the pandemic.

On December 21, the U.S. House of Representatives, followed by the U.S. Senate, passed the bill by overwhelming margins, just hours after lawmakers got their first look at the bill text. The House vote was 259-53, while the Senate approved the bill on a 92-6 margin. On December 27, 2020, President Trump signed the Consolidated Appropriations Act, 2021 into Public Law.

Disbursement of Funds

Division M of the Coronavirus Response and Relief Supplemental Appropriations Act, 2021 contains another package of COVID aid totaling around \$900 billion, with the final agreement providing \$45 billion in transportation-specific aid for various sectors including air carriers, airports, Amtrak, mass transit providers and state DOTs.

An estimate of how the \$9.8 billion in coronavirus funds will be allocated to state transportation departments. Allocation for Ohio is shown below:

AASHTO Estimate of State Apportionment for COVID Relief

Based on "Highway Infrastructure Programs" in
Division M—Coronavirus Response and Relief Supplemental Appropriations Act, 2021 of Consolidated Appropriations Act, 2021
December 22, 2020

State	State Share	Percentage of State Share
Ohio	\$335,097,292	3.4054%

For highway and airport sectors, the bill distributes the funding as follows:

Highway Infrastructure Programs: \$10 billion

Of the \$10 billion, \$9.8 billion is to be allocated to state DOTs through the Surface Transportation Block Grants program, while \$115 million is for the Tribal Transportation Program, \$36 million is allocated to the Puerto Rico Highway Program and \$9 million for the Territorial Highway Program. The funds are provided to state DOTs in the same distribution formula as the obligation limitation for FY 2021 within 30 days of enactment. Grantees may use funds for costs related to preventative maintenance, operations, personnel, debt service payments and coverage for other revenue losses. The Federal share of the costs shall be up to 100%.

Grants-in-Aid for Airports: \$2 billion

Of the \$2 billion, \$1.75 billion is for direct grants to commercial service airports, \$200 million is for airports to provide relief to concessionaires from rent and minimum annual guarantee payments, \$45 million is for general aviation airports and \$5 million is for small communities to help address air service issues. Funds are targeted specifically to help keep airports open and can only be used for operations, personnel, cleaning and debt service. The Federal share of the costs is 100%.

(Excerpted from NSPE DAILY DESIGNS, January 8, 2021, links removed and Table modified to show only Ohio)



Dartmouth engineering students win award at NASA's BIG Idea Challenge



The rover takes on tough terrain in a sand pit in professor Laura Ray's yard. Source: Courtesy of Adam Gronewold

A team of Dartmouth engineering students won the award for best technical paper in NASA's Breakthrough, Innovative and Game-changing Idea Challenge, or "BIG Idea Challenge." Their winning idea proposed lunar space exploration robots that can

connect with other robots when stuck on rough terrain. It is the second consecutive year that a Dartmouth team, led by engineering professor Laura Ray, has won a NASA BIG Idea award.

On Jan. 11, the Dartmouth team took home first prize for its technical paper out of eight finalists. The group, which was led by graduate student Adam Gronewold, includes Chris Lyke '21, Margot G  n  reux '21, Grace Player '21, Andrew Skow '21 and graduate students Joshua Elliott, Austin Lines and Philip Mulford.

Teams were tasked with creating lunar exploration technology concepts that could be used to find water

on the south, or "dark," side of the moon. As NASA is planning on going to the moon in 2024 with the eventual goal of establishing a permanent human presence, the project asked university students to create a lower-cost solution to help find resources and explore the terrain. Since making the finals last year, where they were the only liberal arts college represented, the Dartmouth team received \$80,000 to continue the project and build their robot.

Their idea, SHREWs — Strategic Highly-compliant Roving Explorers of other Worlds — is inspired by the rodents of the same name, which link up mouth to tail in a line to stay together. Gronewold explained that the Dartmouth team identified terrain to be one of the largest challenges in creating a robot capable of finding water while not getting stuck or damaged. The SHREW idea addresses this challenge by creating a robot that is capable of attaching to another rover to free itself.

"If the vehicle were to become stuck, it could actually change the wheelbase or the length of the rover and push and pull itself out of that immobilizing surface," Gronewold said.

The team faced significant challenges when the College shut down in March due to COVID-19. Team members scattered across the country, which presented difficulties in physically creating and testing the robot. Due to lack of a physical lab space, the machine shop at the Thayer School of Engineering made materials and shipped them to Lyke and Gronewold so that they could begin building the robot, according to G  n  reux.

"I actually never saw most of the team members face to face until the fall, so all of the initial planning for the project and the initial design was done over Zoom, which was tough," Lyke said.

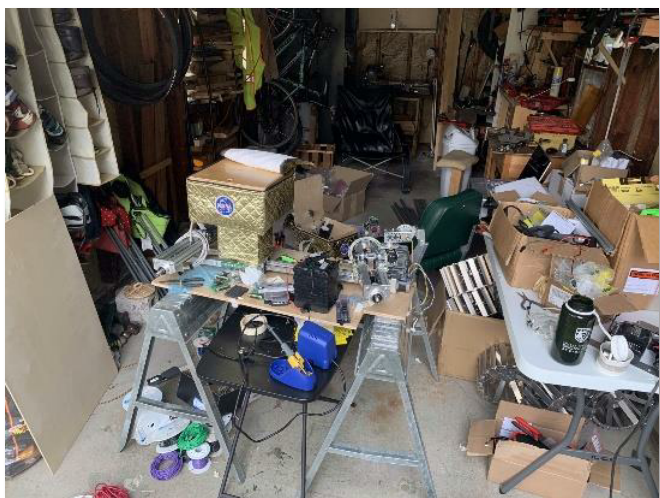
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The team had also begun to plan a trip to a NASA lab site to test their robot but had to cancel due to the pandemic.

In the fall, team members returned to Hanover, but they still did not have access to lab space to work together. Instead, they worked in Ray's garage.

"Fortunately, the weather cooperated," Ray said, noting that the team was blessed with space in both the garage and the yard to "test things."

The team used the phrase "garage band robotics" to describe their building process, referencing the space they were working in.



Courtesy of Chris Lyke '21

Without lab space due to COVID-19, the team set up shop in faculty advisor Laura Ray's garage.

Ray said she was impressed with the team's ability to persevere and successfully create technology capable of functioning in outer space in such small quarters.

Lyke, Généreux, Player and Skow said that the opportunity to learn alongside Ph.D. students was challenging but highly rewarding.

"The Ph.D. candidates that we were working with had multiple years of experience working

on building robots ... so it was a really steep learning curve," Player said. "But it's really nice that the Ph.D. students tried to bring us up to speed as best they could."

Gronewold said the team split up work according to individual areas of strength, which he said is common in engineering projects. For example, some worked on concept, others on design and others on the mechanical control or the prototype. He noted that all members, including the undergraduate students, were able to contribute a significant amount to the project.

"I think what we were able to achieve in the given time, and under the circumstances we had, is a pretty strong representation of the ability of students at Dartmouth to overcome adversity and still shine and produce something that's very high-quality work," Gronewold said.

The team is now pursuing additional funding to continue their work on the SHREW project. So far, they have built two robots and hope to eventually create a caravan. The project has also helped inform some of the undergraduate team members' career plans.

"[The project] really has shown me possible paths for the future," Généreux said. "... There was a conference — a panel discussion — with a lot of different people that work at NASA, and I was just really excited to be able to hear their paths and possibly see a future in aerospace engineering through that."

Skow said that being a part of this project has helped him realize the impact a Dartmouth student can have

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on something as important as NASA's quest for space exploration, which has led him to see new opportunities in his own career path.

"[Space exploration] had been a childhood dream," Skow said. "Everyone when they're a kid wants to be an astronaut at some point. Most people grow out of that, and I did too in my own way, but part of me had always continued to be interested in space."

Correction appended (Jan. 22, 2020): A previous version of this article misspelled Gronewold on second mention. The article has been updated to reflect the correct spelling.

(Excerpted from NSPE DAILY DESIGNS, January 26, 2021, hyperlinks removed)



February 26 @ 6:30pm: Improv Comedy Networking Night

Join the National Society of Professional Engineers (NSPE): Franklin County Chapter and the IEEE Young Professionals: Columbus Section and as we celebrate the end of engineer's week with networking, comedy, and supporting our local businesses. First, we'll gather together via Zoom to virtually network and enjoy some snacks via a local meal delivery service, then, we'll head over to the improv comedy virtual platform for the show. Performers from Columbus's Nest Theatre will

create improvisational comedy scenes based on suggestions from the audience (us!), so start thinking about the characters and situations you'd like to see come to life.

6:30pm-7:00pm Networking and snacking with young professionals from IEEE and NSPE

7:00pm-8:00pm Virtual improv comedy show with performers from The Nest Theatre

Come laugh with us! Space is limited, and GrubHub gift cards will be provided to the first 20 registrants, so **RSVP to reserve your spot today.**

<https://events.vtools.ieee.org/event/register/258640>

Questions? Contact Young Engineer Trustee Colleen at ckonsav1@gmail.com

Society Announces New Executive

NSPE has announced Monika Schulz as the Society's new executive director and CEO, beginning February 15.



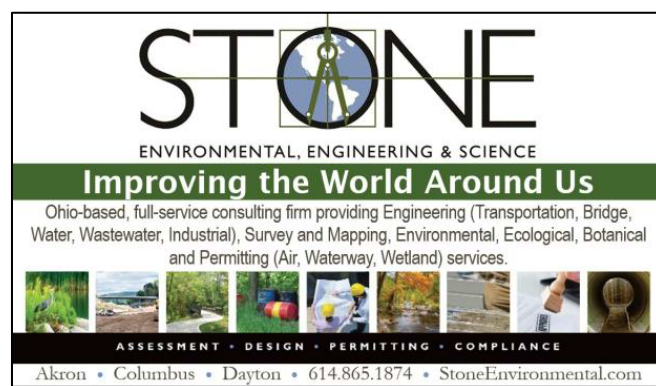
"As we embark on the new year, we are starting a new chapter in NSPE's history," says NSPE President Tricia Hatley, P.E., F.NSPE. "It is thrilling to be in this place where NSPE's volunteer leadership recognized the value that Monika's expertise and authentic leadership style will bring to our organization. Her collaborative, yet-data-driven, approach to management will facilitate the successful execution of our strategic plan, and she's demonstrated her ability to collaborate with state and local chapters to increase impact at her prior organizations."

Schulz has a long history in associations and a passion for the contributions they make to society. Before joining NSPE, she served for over five years as the CEO of the American String Teachers Association in Fairfax, Virginia. In this role, she collaborated with the organization's board on strategic planning, implementing data-driven decision making, and carrying out a rebranding initiative. She also built stronger ties among the organization's 50 state and local chapters, bolstered member engagement, and expanded a national conference and tradeshow as well as a national orchestra festival.

"I'm very excited to be joining the NSPE team," says Schulz, "and I look forward to collaborating with leadership, state societies, and the NSPE management team to further NSPE's vision, mission, and initiatives. Engineers make the world a better place in which to live, and I feel incredibly fortunate and proud to champion the important work of professional engineers."

Prior to serving as ASTA's CEO, Schulz spent 18 years at the Association for Healthcare Philanthropy, in multiple leadership roles, including six years as chief operating officer.

The Virginia Tech graduate is active in the American Society of Association Executives and holds the CAE designation as a certified association executive. (Excerpted from NSPE UPDATE January 2021)



EFO Scholarship Application Deadline Extended

Due to COVID19 and the resurgence of the virus, EFO is extending the scholarship application deadline to Feb. 28, 2021, to give students every opportunity to apply. Any student who has already applied does not need to apply again, but if you have additional information you would like to add to your current application, please do so by the extended deadline. You may email your application or additional information to efo@ohioengineer.com or mail to:

Engineers Foundation of Ohio
400 S. Fifth St., Ste. 300
Columbus OH 43215

Call 614-223-1177 with any questions.



2020-2021 CALENDAR

DATE	TIME	DESCRIPTION
Sept. 4	10:00 a.m.	Deadline for September <i>Columbus Engineer</i>
Sept. 8	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Oct. 5	5:00 p.m.	Deadline for October <i>Columbus Engineer</i>
Oct. 6	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Oct. 15	11:30 a.m.	Program: No Program (Virtual)
Nov. 5-6		EFO Fall CPD Conference
Nov. 9	5:00 p.m.	Deadline for November <i>Columbus Engineer</i>
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. TBD	8:00 a.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. 21-27		National Engineers Week (see www.eweek.org)
Feb. 24	8:00 a.m. – 3:00 p.m.	Engineer for a Day Program
Feb. 25	11:30 a.m.	Program: E-Week Luncheon: “Imagineering Tomorrow” (Virtual – GoToWebinar) Presenters: Joanna Pinkerton, Many Bishop
Mar. TBD	8:15 a.m. – 4:00 p.m.	Ohio MathCounts Competition (OSPE, see www.ohioengineer.com)
Mar. 9	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
Mar. 18	11:30 a.m.	Program: TBD (Virtual)
Mar. 30	5:00 p.m.	Deadline for April <i>Columbus Engineer</i>
Mar. TBD		District Science Day @ CSCC
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>
Apr. 15	11:30a.m.	Program: TBD (Virtual)
May 11	5:30 p.m.	FCC Board Meeting @ CEC, Inc. (Virtual)
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)
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
FCC Luncheons / Programs:	ebriedis@cecinc.com	(614) 468-6222
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
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Chapter Secretary	Yogesh Rege, PE	614-328-5209	614-517-7864 (cell)	Yogesh.Rege@terracon.com
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	Young Engineer Trustee	Dustin Doherty, PE,	614-359-6321 (cell)	
		CPESC	614-310-2075 (w)	ddoherty@cecinc.com
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	EFO Liaison	Steve Day, PE	614-876-7525 (w)	lday1@columbus.rr.com
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			773-517-1036 (cell)	
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	OSPE Director	Tina Sutermeister, PE	740-964-0828 (h)	tlsuterm@embargmail.com
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	Constitution & By-Laws	Devon Seal, PE	614-208-6986 (cell)	devonseal1@gmail.com
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	PEPP Trustee	Nathan Abele, PE	614-793-2226 (w)	Nabele@smeinc.com
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	PEC Trustee	Ken Goodson, PE	614-443-1178 (w)	kengoodson@hotmail.com

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

FIRST CLASS

