



Columbus Engineer

Franklin County Chapter

A chapter chartered by the Ohio Society of Professional Engineers.

P.O. Box 69

Reynoldsburg, OH 43068-0069

May 2022

Vol. 80 No. 9



President's Message

Baba Yahaya, P.E.

- FCC President

FCC-OSPE will be installing our newly elected officers and trustees at an Installation and Awards ceremony on Thursday May 19, 2022 at Buca di Beppo. These officers and trustees are the result of the election conducted in March and will begin service on July 1, 2022 for the 2022-2023 administrative year. These are dedicated individuals ready to take up the mantle and serve our Chapter. See our new officers and trustees under the 2022-2023 officers section of this publication. I would like to encourage all our members to endeavor to attend the installation event. Refer to the 2022 FCC-OSPE Officer Installation and Awards section of this publication for details on the event.

Our continuing professional development (CPD) hour program in April featured Sebastian Billaut of Commonwealth Associates, presenting on the topic "The Grid of Tomorrow: IBRs and Microgrids for Power System Stability". I would like to thank Sebastian for taking the time to share the vision on this topic with us.

Refer to the 2021-2022 Calendar page of this publication for our program schedule. Our chapter programs are free to members of NSPE and OSPE/FCC. I would also like to encourage our members to check and renew your NSPE/OSPE membership and/or update your contact information as applicable.

FCC-OSPE Officer

Installation and Awards

- by Nathan Abele, P.E.

The Ohio Society of Professional Engineer's Franklin County Chapter (FCC) would like to invite you to the Awards and Officers/Trustees Installation Dinner Meeting. Please join us for an Italian family style dinner and desert.

This event will be held at Buca di Beppo, located at 60 E. Wilson Bridge Road, Worthington, Ohio 43085 from 6:30 pm to 8:30 pm on Thursday, May 19. Registration begins at 6:15. Award recipients and FCC-OSPE members are welcome to attend, and you can bring a plus one! The dinner event is free for all attendees. **Please RSVP by Sunday May 15.** (Seats are limited.)

Dinner will include Bruschetta, Spaghetti Marinara, Fettuccine Alfredo, and Chicken Parmesan. This family-style dinner includes Mixed Green and Caesar salads along with fresh Italian bread, soft drinks, iced tea, and coffee. Desert will be Mini Chocolate Chip Cannoli and Tiramisu. If you have any dietary restrictions, and/or need to request a substitute, please let Nathan know in your RSVP.

This is the official event for the installation of the officers and trustees of the FCC-OSPE for the 2022-2023 year. Each officer and trustee will be asked to recite the Engineer's Creed, and then they will be officially recognized for their position starting in July. Additionally, as part of the evening, we will be

• **Continued, Page 2**

Officer and Installation Award, continued

handing out several awards to FCC members and guests who have proven excellence in a particular engineering field.

Again, please join us for dinner, installation, and awards!

Space is limited to the first 20 people to register. You must register to attend.

If you have any questions, please contact Nathan Abele at nabele@smeinc.com.

Engineers' Creed

At the July 11, 2021 NSPE Board Meeting the Board approved the Engineers' Creed. Shown below is the revised Creed. **Engineers' Creed (2021)**

As a Professional Engineer, I dedicate my professional knowledge to the advancement and betterment of public health, safety, and welfare. **I pledge:**

To give the utmost of performance;

To participate in none but honest enterprise;

To live and work according to the highest standards of professional conduct;

To place service before profit, the honor and standing of my profession before personal advantage, and the public welfare above all other considerations.

In humility, I make this pledge.

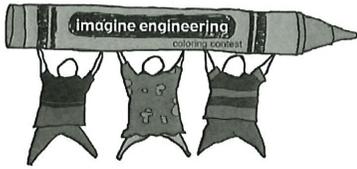


Imagine Engineering Program, Winning Entries

- by Tim McCarthy, P.E.

The imagine engineering program for 2nd graders was held virtually this year. The top entries for our chapter have been selected and forwarded to EFO for entry into the state judging. Winning entries are shown (see pages 3 through 5). Thank you to all who volunteered with this program and a special thank you to all the teachers and children who participated!





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Directions to enter contest:

- 1) Neatly print your name, school and city, and teacher's name here. →
- 2) Draw and color your idea of an engineer working.
- 3) **Submit your entry by April 15.** Email a scan of your entry to efo@ohioengineer.com or return your original entry to EFO, 400 S. Fifth Street, Suite 300, Columbus, Ohio 43215.

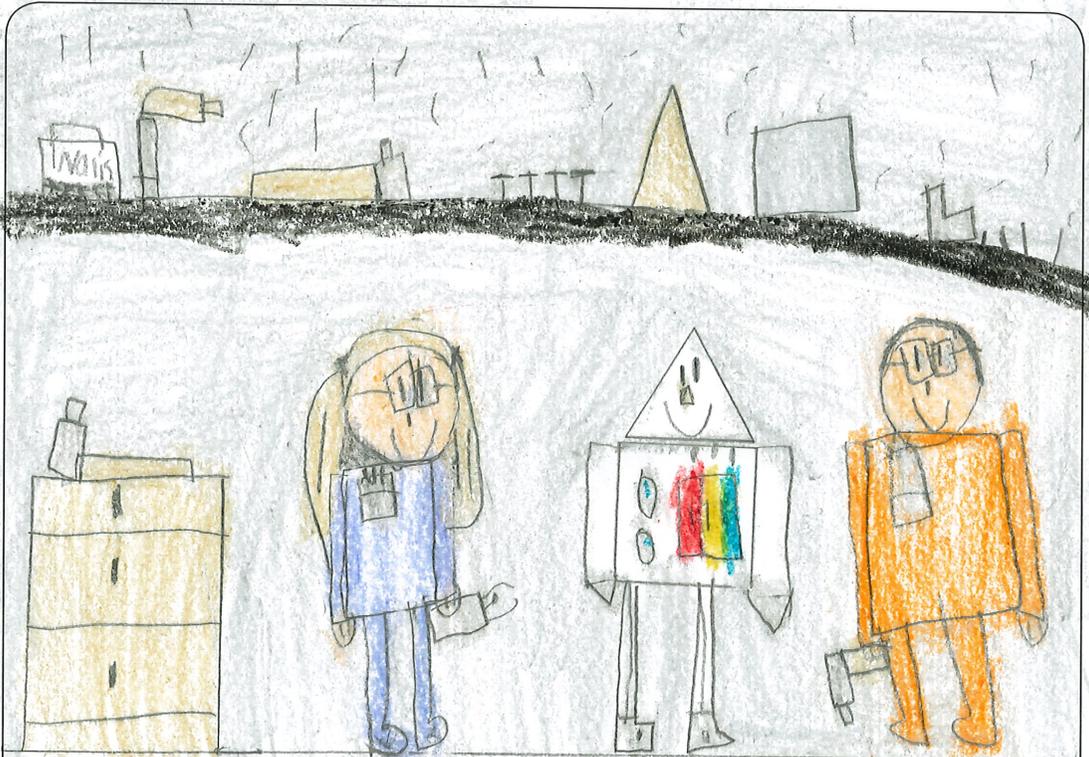
Name: Maggie Branson
School and City: Marysville
Your Teacher's Name: Mrs. McElish

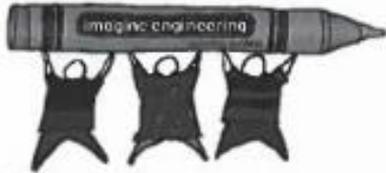
**Thanks for participating
and HAVE FUN!**

Prizes: The statewide winners will win:

- 1st place – Telescope (\$200 value) & art published in OhioENGINEER
- 2nd place – Digital Microscope (\$90 value)
- 3rd place – MathShark Skill Game (\$40 value)

Top of Coloring





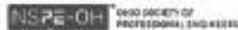
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Name: Hannah Moore
School and City: Duncan Falls Elem. Duncan Falls
Your Teacher's Name: Ms. Bates

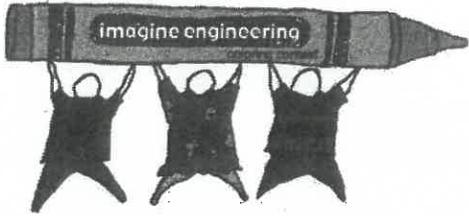
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*Thanks for participating
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Top of Coloring





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- 3) **Submit your entry by April 15.** Email a scan of your entry to efo@ohioengineer.com or return your original entry to EFO, 400 S. Fifth Street, Suite 300, Columbus, Ohio 43215.

Name: Zoey Francis
 School and City: Raymond Elementary, Raymond, OH
 Your Teacher's Name: Mrs. Kummerer

Prizes: The statewide winners will win:

- 1st place – Telescope (\$200 value) & art published in OhioENGINEER
- 2nd place – Digital Microscope (\$90 value)
- 3rd place – MathShark Skill Game (\$40 value)

*Thanks for participating
and **HAVE FUN!***

Top of Coloring



A STEM Adventure Awaits Kids at CAC's Engineering Fest

For the past eight years, kids have been coming to the Chicago Architecture Center for an action-packed day of discovery at its annual [Engineering Fest](#). Each year, more than 1,000 kids ages 8 to 14 are introduced to STEM fields through hands-on learning and creative problem-solving activities. And while the younger attendees might not realize it as they build with Legos and dream up cities of the future, parents are sure to see the educational benefits of the festival.

Chicago is known for its iconic skyline, but behind every towering skyscraper, there's a team of engineers bringing innovation to the field. That's why the CAC so strongly believes Engineering Fest is an integral part of the identity. In the past, the festival's focus has been on urban transportation, engineering the 1893 Chicago World's Fair, and the city's tallest skyscrapers. This year, attendees will learn about how engineers are addressing climate change in the built environment. At its core, Engineering Fest is about inspiring the next generation of engineers, architects, and designers by providing kids with access to experts today.

"When families think of the Chicago Architecture Center, skyscrapers might come to mind before the profession of engineering. However, each year our Education team creates a festival centered around innovation and advancements in the field to help illustrate the science behind the walls of our most recognizable structures," says Angela Esposito, Director of Education and Experience at the CAC. "Everything from bridges and transportation systems to construction and building tall rely on engineering. It plays a huge role in the city's identity."



A focus on the future

This year's program on May 28, 2022, takes an age-appropriate look at the relationship between climate change and the built environment. Industry leaders, including those on hand at Engineering Fest, are increasingly focused on designing cities that strive for carbon neutrality by embracing cleaner energy resources like solar and wind power. "The focus is on the responsibility of architecture and engineering in the conversation surrounding climate change," Esposito says. "Families will be able to work with real engineers and CAC team members while learning more about the impact of the built environment and how designers can and should be building with global impact at the forefront."

The 2022 festival is in conjunction with the CAC's Energy Revolution exhibition, opening April 9. The exhibition sets its sights on the future, exploring how cities and individuals can adopt sustainable practices and innovative technologies to combat climate change head-on. While going green isn't always an easy adjustment, parents and children alike will leave the exhibition feeling inspired by how cities are shifting their focus toward renewable resources and motivated to make personal choices that can help slow Earth's dangerous warming.

What's in store at this year's festival

There's no shortage of entertaining and educational opportunities for kids during this year's Engineering Fest. Continuing with the program's emphasis on creating greener cities, children can build their own wind turbines using household materials while learning about the importance of carbon-neutral energy sources.

Take to the streets of Chicago to explore the systems that help people move around the city on a

- Continued, Page 7

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STEM Adventure, continued -

Youth Tour with a CAC expert. Discover the engineering feats that make the city’s famous bridges possible and learn about Chicago’s impressive “L” Train system. Not only is the CTA a reliable way to get to and from a destination in a timely fashion, it also saves energy compared to single-occupancy vehicles.

Throughout Engineering Fest, kids will learn about the ways engineers are addressing climate change in the cities of the future that they are designing today. But there are also ways for individuals to get involved and help save the planet. Whether this means committing to taking a shorter shower to save water, biking or carpooling to school to reduce greenhouse gas emissions, or remembering reusable utensils when eating out, kids will have a moment to reflect on what they can do to help at the Take Action photo booth, complete with fun props for the perfect photo op.

Learning from the experts

Industry professionals will also be on hand to engage with children, answer their questions and inspire them to think big. The goal is to introduce young attendees to the various facets of engineering, ultimately providing a bridge to the field that outlines career pathways kids might not have otherwise known about.

“We find that kids end up leaving the festival with a newfound appreciation for and understanding of the city around them,” Esposito says. “They learn something here at the CAC and immediately see examples of it out in the world. I’m always surprised to see how quickly kids pick up on engineering principles and how excited they get to relate it back to what they see on their block or in their neighborhood.

Ultimately, Engineering Fest is about engaging with kids and sparking their curiosity. That might mean enhancing their problem-solving and critical thinking skills or even inspiring them to pursue a career in STEM down the line. The great thing about the festival is that it’s an open-ended adventure for kids to explore any way they want. Find out more about Engineering Fest and register at architecture.org.

(Excerpted from NSPE DAILY DESIGNS, March 14, 2022 with hyperlinks and photos removed)

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Yogesh S. Rege, P.E.
Senior Principal, Office Manager
Yogesh.Rege@terracon.com
(614) 328 5137

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Remember -
our fallen heros.
They are the reason
that we are free.



Nearly \$45B for climate and clean energy included in Biden's proposed budget

In a press briefing Monday, Biden said his budget request would reduce the federal deficit, help fight crime and boost spending on national security while providing energy-related benefits.

"My budget lowers family energy costs with tax credits to help people make their homes more efficient, research and development to broaden the reach of solar and build a clean energy future," Biden said.

The proposal sets the table for the House of Representatives and Senate to draft the next federal spending plan in the months leading up to a mid-term election.

The proposed budget lacks measures found in the Build Back Better bill, which included about \$550 billion in energy-related provisions, such as tax credits, supply chain incentives and electric vehicle spending. The bill passed the House in November but

stalled in the Senate, where it was opposed by Sen. Joe Manchin, D-W.Va.

The Biden administration "didn't want to get ahead of Congressional negotiations" by including those measures in the proposed budget, Office of Management and Budget Director Shalanda Young said Monday during a press briefing.

The proposed budget includes a "deficit-neutral reserve fund," effectively a placeholder, to give Congressional negotiators the room to develop legislation that reduces costs for Americans and reduces the deficit, Young said.

In a move that could affect investor-owned utilities, Biden proposed increasing the federal corporate tax rate to 28% from 21%. Biden proposed the same increase in the last budget cycle, but it wasn't included in the omnibus spending bill for FY22 that he signed March 15.

Biden's budget request includes \$9.2 billion for clean energy research, development and deployment, up a third from FY 2021 enacted levels, at DOE as well as \$90 million for a new Grid Deployment Office.

The proposed budget calls for increasing the budget for Advanced Research Projects Agency-Energy, called ARPA-E, to \$700 million from \$450 million. The agency, housed in DOE, helps develop emerging energy technologies that are too early for private sector investment.

At the Department of Interior, Biden's budget request calls for spending \$254 million to speed up and expand clean energy deployment on public lands and offshore waters. The funding would support the leasing, planning and permitting of solar, wind and geothermal energy projects, and related transmission

• Continued, Page 9





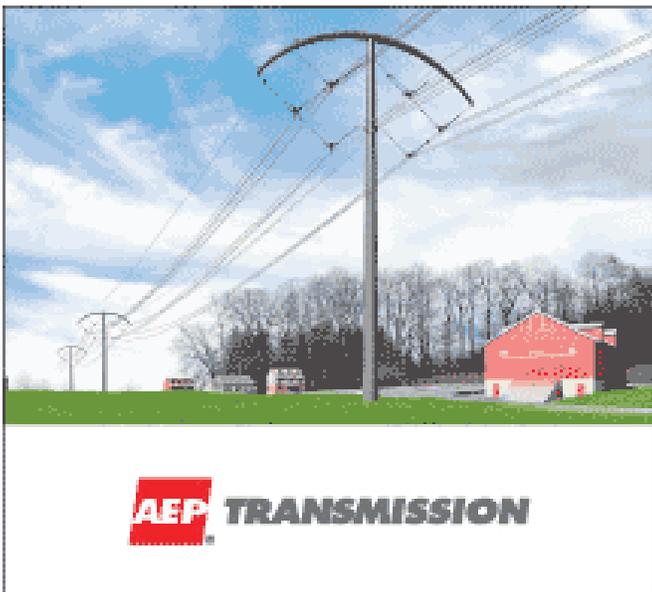
Climate and Clean Energy, continued -

infrastructure, according to the summary of the proposed budget.

The proposed budget calls for spending \$502 million to weatherize and retrofit low-income homes, including \$100 million for a pilot program to electrify low-income homes. It also includes \$150 million to electrify tribal homes and transition tribal colleges and universities to renewable energy.

The budget request includes \$757 million for zero-emission vehicles and charging or fueling infrastructure for federal agencies to provide "immediate, clear, and stable" demand for clean vehicles and components, according to the budget request summary.

(Excerpted from NSPE DAILY DESIGNS, April 1, 2022)




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**SAVE THE DATE!
2022 All-Ohio Engineering
Conference**



Register for the **All-Ohio Engineering Conference**, proudly presented by the Ohio Society of Professional Engineers. To offer you the "best of both worlds," our Thursday program is in person so you can enjoy the company of your peers, while 12 CPD hours on Friday & Saturday are virtual so you can save travel expenses and get your continuing education in your home or office.

- **Thursday, June 9 (In Person at Hilton Columbus at Easton)**
- **Friday, June 10 (Virtual Only)**
- **Saturday, June 11 (Virtual Only)**

Visit:
<http://events.r20.constantcontact.com/register/event?llr=s8ap4tcab&oeidk=a07ej4urov9193a0cfc>



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 - Cancelled
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: Ohio Penal Industries (OPI) Past, Present and Future, with Presenters: Travis Hall, Chelsey Stillings, and Ann King - (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: Sebastien Billaut - (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

**2021-2022 OFFICERS,
TRUSTEES & COMMITTEE CHAIRS**

	Name	Phone # (w) or (h)	Cell Phone #	E-mail Address
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FIRST CLASS

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




HAPPY
*Memorial
Day*