



**ENGINEERS  
FOUNDATION OF OHIO**  
Advancing Engineering Education in Ohio

# FOCUS

WINTER 2024

**At Right:** *EFO Past President Aurea Rivera, PE, PMP, PMI-ACP, films the Spanish translation of EFO's original Imagine Engineering video. Thanks to a generous grant from The P&G Fund of the Greater Cincinnati Foundation, Imagine Engineering is ¡Ahora en español!*



## TENS OF THOUSANDS BENEFIT FROM EFO PROGRAMS

### *A new grant from the P&G Fund expands Imagine Engineering and EFO donors support engineering education in Ohio*

It was a year of exciting news and big program numbers for the Engineers Foundation of Ohio.

EFO successfully secured a very special grant from **The P&G Fund of the Greater Cincinnati Foundation** to expand Imagine Engineering to include Ohio's Spanish-speaking second graders.

Thanks to the P&G Fund grant, "We have produced the Spanish translation of our original Imagine Engineering video," said EFO Past President Aurea Rivera. The new video features Rivera translating in Spanish to share many important and exciting things different kinds of

engineers do in their daily work. The video also shows several engineering demonstrations (i.e., simple and compound machines, paper airplanes and more) with the addition of Spanish subtitles.

"This generous grant also reinforces the Imagine Engineering program in Dayton," Rivera said.

The Imagine Engineering program — now available in English and Spanish — encourages second graders' educational pursuits and works to spark real interest in engineering careers.

"We are *thrilled* to extend our gratitude to The P&G Fund of the Greater Cincinnati Foundation," Rivera said.

**P&G  
Fund**



But there's more: "The American Electric Power Foundation increased its giving to become a Platinum Sponsor in 2023," said EFO President Tina Sutermeister, MBA, PE, FNSPE. "And so many others generously gave financial support and their time to help EFO advance engineering education — and STEM education — for an estimated 21,000 Ohioans."

In 2023, EFO enjoyed its largest ever attendance at both the Fall CPD Conference and December Seminar with hundreds attending each program. Similarly, the Engineer As Leader training enjoyed its second largest attendance in the last three decades.

For all three EFO CPD programs, large audiences (including a growing number of out-of-state PEs) praised EFO for timely managerial, technical and ethical seminars featuring experts in their fields.



In just one year, EFO's Imagine Engineering registrations have grown more than 157 percent from 5,425 students in 2023 to 8,537 in 2024 (to date).

Ohio MATHCOUNTS numbers are holding steady with 1,238 middle school students served at local competitions in 2023.

In the spring of 2023, EFO awarded engineering scholarships to six new Ohio students. When these students were starting college last fall, EFO was busy promoting its 2024-2025 scholarship program, which is offering more than \$31,000 to Ohio's brightest students. By February 15, EFO's annual scholarship application deadline, the Foundation had received 172 applications from 68 students!

Yes, for the Engineers Foundation of Ohio, 2023 was a great year with a great deal to celebrate.

## President's Award winners support EFO's mission to advance engineering education

At the 2023 All-Ohio Engineering Conference, Engineers Foundation of Ohio (EFO) President Aurea Rivera, PE, PMP, PMI-ACP, proudly presented the 2023 President's Award to two deserving individuals – **Joseph V. Warino, PE, PS, FNSPE**, and **John Enderle** of Terracon Consultants, Inc.

Warino and Enderle were recognized at the annual NSPE-Ohio/EFO Awards Luncheon for their long-term and outstanding contributions towards furthering the goals and objectives of EFO.

In addition to supporting EFO's Imagine Engineering and Ohio MATHCOUNTS

programs through the Mahoning Valley Chapter of NSPE-Ohio, Warino has been a loyal supporter of the Foundation's fundraising via its annual Benefit Golf Outing.

A past president of EFO, Warino is also a past president of NSPE-Ohio and Mahoning Valley Chapter. He also served as NSPE-Ohio's longtime VP of legislative and government affairs until 2023. He retired as Canfield's city manager in December 2017.

John Enderle of Terracon has also been a loyal supporter of the Foundation's fundraising efforts through

the Benefit Golf Outing, which benefits children around the state. Enderle is a senior project manager in the Columbus, Ohio, office of Terracon.

Throughout his career, Enderle has been extensively involved with geotechnical engineering, testing and inspection and construction projects.

Congratulations, Joe Warino and John Enderle! Your loyal support has allowed EFO to effectively serve Ohio students with fundamental STEM education, award college scholarships and provide leadership training for professionals.



*EFO President Aurea Rivera, PE, PMP, PMI-ACP, presents Joseph V. Warino, PE, PS, FNSPE, with the President's Award.*



*EFO President Aurea Rivera, PE, PMP, PMI-ACP, presents John Enderle of Terracon Consultants, Inc., with the President's Award.*

## EVENTS

All 2024 programs and meetings are virtual unless otherwise noted. For details, please call 614-223-1177.

JAN-MAY	Imagine Engineering
FEB 01-29	Chapter MATHCOUNTS Competitions
MAR 14-15	"The Engineer As Leader" Professional Training
MAR 15	EFO Board of Trustees Meeting
MAR 16	Ohio MATHCOUNTS, Columbus State Community College
APR 06	State Scholarship Grading
APR 19	EFO Committee Meetings
MAY 31	EFO Benefit Golf Outing
MAY 11-13	National MATHCOUNTS, Washington, DC
JUN 15	EFO Annual Meeting, Embassy Suites Columbus Airport
JUN 21	EFO Board of Trustees Meeting

## EFO'S 2023-2024 OFFICERS: ADVANCING ENGINEERING EDUCATION IN OHIO

- **President Tina Sutermeister, MBA, PE, FNSPE**, of NSPE-Ohio's Franklin County Chapter, is retired from the telecommunications industry.
- **President-Elect Scott Dilling, PE**, of NSPE-Ohio's Canton Regional Chapter, is a professor and program

director at the University of Akron and a consultant.

- **Past President Aurea Rivera, PE, PMP, PMI-ACP**, of NSPE-Ohio's Dayton Chapter, is on sabbatical from NextGen Federal Systems.
- **Secretary Chett Sieftring, PE**, of NSPE-Ohio's Northeast

Chapter, is a geotechnical engineer and the director of engineering for GeoSci in Berea.

- **Treasurer James Burke, EI**, of NSPE-Ohio's Toledo Chapter, is an electrical engineer at Whirlpool Corporation and a part-time instructor at the University

of Toledo.

- **NSPE-Ohio President Dennis Irwin, PhD, PE, FNSPE**, of NSPE-Ohio's Buckeye Chapter, is retired as dean of the Ohio University Russ College of Engineering and Technology and continues to teach part-time.



## Engineer As Leader participants call David Bayless' instruction 'refreshing'

Due to popular demand, EFO brought back David Bayless, PhD, PE, to serve as faculty for the Engineer As Leader program.

The former director of the Robe Leadership Institute at Ohio University's Russ College of Engineering, Bayless

taught participants how to influence others and how to improve engineering team performance and cohesion. Bayless also taught participants how to apply leadership skills to specific situations – leading peers, handling difficult conver-

sations and fuzzy ethical situations.

Participants said, "Refreshing to see the topic explored with such enthusiasm," "Well done," and "It was a very well-run educational event with excellent content!"



David Bayless, PhD, PE

## Around Ohio: Engineers Foundation of Ohio leaders at work



In the photo on the left, at the installation ceremony in Columbus last June, EFO President Aurea Rivera, PE, PMP, PMI-ACP, (left) passes the gavel to President-Elect Tina Sutermeister, MBA, PE, FNSPE.

Above, Sutermeister presents Rivera with the past president's gavel plaque in recognition of her service to the Foundation.



Above, at the 2023 Leadership Retreat in Hocking Hills, EFO President Tina Sutermeister meets "Abraham Lincoln," who provided a historical account of Civil War-era engineering.

On the right, Sutermeister introduces the Fall CPD Conference sponsors to EFO's large virtual audience watching from all around Ohio and 24 other U.S. states.



Prathiksha Socrates, 1st place

## Mason Early Childhood 2nd graders win Imagine Engineering

Each year thousands of second graders learn about engineering when NSPE-Ohio members take Imagine Engineering to Ohio's elementary students. In 2023, out of more

than 5,400 Ohio students, three Mason Early Childhood Center second graders – Prathiksha Socrates, Theodore Korslund, and Aarush Modini – placed 1st, 2nd and 3rd (respectively) in

Imagine Engineering's statewide coloring contest.

Miss Socrates said, "My drawing shows how engineers work hard to build a better tomorrow using new technologies."

## 2023 MATHCOUNTS champs travel to Florida for finals

Of the 163 middle school students at the Ohio MATHCOUNTS competition in March, four pupils took the top individual honors and traveled to Orlando, FL, for the national competition. Ohio championship team included Eversole Run Middle School eighth grader Alex Fei Zhang, Walnut Hills Middle School eighth grader Benjamin Chase

Jump, Olentangy Shanahan Middle School seventh grader Arush Krisp, and Perrysburg Junior High School eighth grader Simon Deng. The Ohio team, led by Coach Anne Ramsay of Walnut Hills Middle School, came in 19th place at the national finals, and two Ohioans ranked among the top 50 students in the country.



L-R: Alex Zhang, Coach Anne Ramsay, Arush Krisp, Benjamin Jump, Simon Deng enjoy the Florida sunshine at the national finals.

## EFO's 'AI Frontier' seminar earns rave reviews from engineers



Ray Waite, MS, PMP®



Dennis Ong, PhD

EFO brought back Ray Waite, MS, PMP®, to lead EFO's December Seminar, "Navigating the AI Frontier," training for Ohio PEs interested in the transformative AI technology that has swiftly evolved into an indispensable tool for engineering firms. The December Seminar, worth 6.0 CPD hours and six credits towards Project Management Professional (PMP®) certification or its renewal, was both virtual and interactive.

An engineering leader in the business commerce and telecom industries, Waite facilitated discussions on identifying and mapping a business' AI needs, how AI revolutionizes innovation, who is responsible if/when AI fails, pitfalls to avoid, experimentation, and introducing AI to engineering teams. He also presented a one-hour subsection on ethics, which included a discussion on laws and public policies pertaining to AI.

Dr. Dennis Ong, a TEDx speaker on AI and an executive at a Fortune 5 company, joined Waite for the 2023 webinar to discuss key AI breakthroughs, AI "winters," the future of AI, and generative AI, including opportunities and challenges. In 2022, Dr. Ong received three patents on AI, 5G, and autonomous vehicles, and his team demonstrated the world's first 5G autonomous vehicle.

"This was fantastic," said one participant. "I enjoyed the discussion and learned so much. My thanks to Mr. Waite and Dr. Ong. EXCELLENT."

Other participants said: "Glad I joined today; cool stuff," "Thanks for another awesome opportunity to learn about important and visceral topics," "A very well run, informative seminar," and "Great program, thank you!"

"PMP" is a certification mark of the Project Management Institute, which is registered in the United States and other nations.

*Thank you so much for selecting me to receive a scholarship to the University of Toledo. I promise to use this scholarship for good and change the world. I will use this degree in the military."*

— Jamison Grime, Jr., Stryker, OH  
2023 Recipient, Peter Peterson Fund  
— University of Toledo —  
Memorial Scholarship

*I am honored to receive the Raymond H. Fuller, PE, Memorial Scholarship. I truly appreciate your generosity."*

— Dylan Bambauer, New Bremen, OH  
2023 Recipient, Raymond H. Fuller,  
PE, Memorial Scholarship

*Again, thank you so much to you and everyone that made this scholarship opportunity possible. I'm interning at Preformed Line Products this summer."*

— Emily Padavick, Brunswick, OH  
2023 Recipient, Cyril W. Neff, PE, PS,  
Memorial Scholarship

*I am planning to major in chemical engineering and pursue a dual degree with music. I am hoping to engage in research at Case uniting STEM and music in areas such as improving musical equipment. Thank you."*

— Kennedy Brehm, Lancaster, OH  
2023 Recipient, C. Merrill Barber, PE,  
Memorial Scholarship

### PROFESSIONAL EDUCATION

## Ohio PEs return to EFO's Fall Conference for their CPD requirement

*At the 2023 Fall CPD Conference it became obvious that there were lots of repeat customers*

Several hundred PEs participated in EFO's 2023 Fall CPD Conference to earn 15 CPD hours. In technical and managerial seminars, participants learned about automation of agricultural field machinery, geotechnical aspects of Pittsburgh's new "floating" park, how technological changes to drilling domestic oil and gas impacted the world's economy, Ohio EPA projects, lessons learned from a natural disaster, and much more. In Ohio-mandated ethics seminars, Conference participants

learned about ethical advantages of trust-based partnering and a forensic study in ethics pertaining to the May 2020 cascading dam failures in Michigan.

EFO has heard it said many times: "I rely on the EFO for low-cost, quality CPD hours." Indeed, all EFO (and NSPE-Ohio) continuing education programs have earned this high praise, but such comments are frequent at EFO's Fall CPD Conference, which enjoyed its largest-ever attendance and a great many repeat customers in 2023.

Fall CPD Conference evaluations showed a lot of enthusiasm for EFO's November continuing education program.

One repeat customer said, "I watch for this conference," while others said: "This was another great conference," "I continue to be impressed by the quality of the presentations," "Thank you for yet another excellent program," and "Thank you for maintaining a high-quality event."

Other participants summed up the feelings of many: "Well moderated, kept on schedule, no nonsense, great variety of relevant topics covered," and "Outstanding topics and presentations; highly recommend to fellow engineers."

Ohio PEs, thank you for coming back to EFO every year. The Fall CPD Conference will return November 7-8, 2024.



# Six promising engineering students accept EFO scholarships & start classes



Special thanks to EFO's Scholarship Committee – Chair Terry McClain, PE, Joe Sullivan, PE, and L. Steve Day, PE, FNSPE – for doing the tough job of evaluating scholarship applications. Congratulations to EFO's six new scholarship recipients!

**Engineers Foundation of Ohio General Fund Scholarship:** Jeremias Ortiz, of Fremont, Ohio (Toledo Regional Chapter), is attending the University of Toledo to study mechanical engineering. He says his best achievement is completing three-semester in the University of Toledo's co-op program. In his spare time, Ortiz enjoys riding motorcycles – and he especially enjoys 1980s Universal Japanese Motorcycles. Recipients of the EFO General Fund Scholarship must meet EFO's general criteria and demonstrate their leadership, work experience, activities, and involvement in professional and technical societies.



**EFO General Fund Scholarship**  
*Jeremias Ortiz*

**Raymond H. Fuller, PE, Memorial Scholarship:** Dylan Bambauer of New Bremen, Ohio (Dayton Chapter), is attending the University of Dayton to pursue a bachelor's degree in mechanical engineering and a minor in business. With diverse interests, Bambauer has been active in Future Farmers of America and 4-H as well as Science Club, Business Club, Holy Redeemer Youth Group, and sports. An entrepreneur, he owns and operates "Dylan's Campfire Wood." This scholarship was established by Raymond Fuller's wife, Rhoda. Their son, EFO Past President Bob Fuller, PE, was also instrumental in creating this scholarship in his father's memory.



**Raymond H. Fuller, PE, Memorial Scholarship**  
*Dylan Bambauer*

**C. Merrill Barber, PE, Memorial Scholarship:** Kennedy Brehm is a graduate of Lancaster High School in Lancaster, Ohio (Franklin County Chapter). She is attending Case Western Reserve University to study chemical engineering and music. A clarinetist, Kennedy hopes to engage in research at Case that will tie her passion for music with her engineering studies. Barber & Hoffman, Inc., is the sponsor of this scholarship. Applicants must demonstrate both high scholastic achievement and individual contribution to the well-being of society. Recipients must be accepted for enrollment at Case Western Reserve University or Cleveland State University.



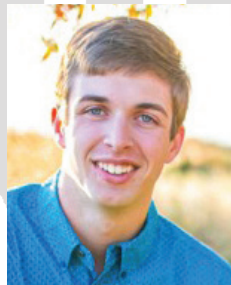
**C. Merrill Barber, PE, Memorial Scholarship**  
*Kennedy Brehm*

**Cyril W. Neff, PE, PS, Memorial Scholarship:** Emily Padavick of Brunswick, Ohio (Akron District Chapter), is attending the University of Akron to study electrical engineering. She recently interned at Preformed Line Products where she worked as a research and engineering lab technician working with vibration and durability testing on products. Cyril Neff, who worked with the City of Cleveland, Cuyahoga County Engineer and State of Ohio Department of Highway Engineers, Division 12, had a special interest in helping young engineers get started in their professional lives. In memory of his lifelong accomplishments, the Neff family established this scholarship in his name.



**Cyril W. Neff, PE, PS, Memorial Scholarship**  
*Emily Padavick*

**Franklin County Chapter of Ohio Society of Professional Engineers Scholarship:** Samuel Johnson is from Plain City, Ohio (Franklin County Chapter). He graduated from Fairbanks High School and is attending Ohio Northern University to study mechanical engineering. This scholarship is funded by the Franklin County Chapter of the Ohio Society of Professional Engineers. Recipients must meet EFO's general criteria. Consideration is given to applicant's academic achievement, activities, special recognitions and honors, work experience and their interest in a career in engineering.



**Franklin County Chapter of NSPE-Ohio Scholarship**  
*Samuel Johnson*

**Peter Peterson Fund – University of Toledo – Memorial Scholarship:** Jamison Grime, Jr., is from Stryker, Ohio (Maumee Valley Chapter). Grime is attending the University of Toledo to study chemical engineering. He plans to be a part of the University of Toledo Rocket Battalion and use his engineering degree in the military. The family of Peter Peterson established this scholarship fund in memory of their father, who was a practicing engineer in Toledo. The family is pleased to continue its support of deserving engineering students by joining with the University of Toledo and EFO to sponsor this scholarship.



**Peter Peterson Fund - University of Toledo Scholarship**  
*Jamison Grime, Jr.*

# DONOR HONOR ROLL (Fiscal Year Ending June 30, 2023)



*EFO Donors,*

*Thank you for your generous support to the advancement of engineering education in Ohio!*

## Platinum

- The P&G Fund of the Greater Cincinnati Foundation

## Gold

- Louis Perry PE & Joan Perry

## Silver

- Anonymous
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- Steve C Wilson PE
- Tai Wong PE
- John-David Yoder PhD
- David A Younger PE

## General Fund - Corporate

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- Artisan Engineering (Harry Shamansky PE)
- Proe Power Systems LLC (Richard Proeschel PE)
- PTA Engineering (David Tschantz PE)
- Shell & Meyer Associates Inc (Richard Meyer PE)

## General Fund - NSPE-Ohio Chapter

- Dayton Chapter
- Franklin County Chapter
- Toledo Regional Chapter

## EFO General Fund Scholarship

- Dayton Chapter

## Franklin County Chapter Scholarship Fund

- Franklin County Chapter

## Chacey Scholarship Fund

- Herb Harpster PE

## EFO Chacey Scholarship - Check-Off Donors

- Lawrence Gradwell PE
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## EFO General Fund Scholarship - Check-Off Donors

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**MAY 31, 2024**

**EFO ENGINEERS FOUNDATION OF OHIO**

# 31st benefit golf outing

**SUPPORT ENGINEERING SCHOLARSHIPS, YOUTH EDUCATION & PROFESSIONAL EDUCATION**