



Columbus Engineer

Franklin County Chapter

A chapter chartered by the Ohio Society of Professional Engineers.

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

June 2023
Vol. 81 No. 9

President's Message

Nathan Abele, P.E.
– FCC President



On May 4th, Ken Goodson provided a presentation on Healthy Buildings. On June 1st, Rao Chitikela is scheduled to present on the Treated and Regulated Municipal Wastewater Effluents to Direct Potable Reuse. Be on the lookout for additional information.

Thank you to those who have voted on the minor changes to our Constitution and Bylaws. Please be sure to participate in the vote for the officers and trustees for the upcoming fiscal year. We are targeting the third week of June for our officer installation and awards banquet, please watch for upcoming additional information.

We are working through details for a membership event in mid-June!

Additionally, Thank You to all who have supported our programs. We could not have the programs and events without the volunteers stepping-up to help.

Nathan Abele, PE
FCC-OSPE President



OSPE-FCC June Luncheon Program

Date: Thursday, June 1, 2023

Place: Hickory House
550 Officecenter Pl., Gahanna, OH

Time: Registration: 11:30 am

Lunch: 11:50 am

Speaker: 12:00 pm

Closing Remarks: 1:00 pm

Cost: Members: \$25.00 & Non-Members: \$35.00.
SPE@OSU Students: \$10.00



Registration: Visit www.fccospe.org. **Pay by check or cash at door.** No access to a computer, contact Steve Day, at 614-876-7525, to help with registration.

Title: “Treated and Regulated Municipal Wastewater Effluents to Direct Potable Reuse (DPR)”

Abstract: Municipal wastewater (all inflows, as permitted) is treated, as per the applicable national pollutant discharge elimination system (NPDES) regulatory and permit requirements in the US. The final and regulated wastewater effluents are discharged back to watershed(s) and, however, with the industrial reuse where (economically) feasible. Worldwide, this final wastewater-effluent resource is started being noticed as “non-revenue water.” The treated municipal wastewater effluents can be

- Continued, page 2

Luncheon, continued –

considered for indirect potable reuse (IPR) or direct potable reuse (DPR). The processing of those final municipal-wastewater effluents to DPR quality, does require advanced water treatment (AWT). Application(s) of water-reuse completes the operation of municipal water-infrastructure in the mode of circular-economy.

Learning Objectives:

- 1 - Quality of treated and final municipal wastewater effluents in the US;
- 2 - Advanced water treatment systems (AWTSS);
- 3 – Current standards and regulatory requirements (as selected);
- 4 - product-water quality;
- 5 - energy use;
- 6 - associated-costs (in-brief)

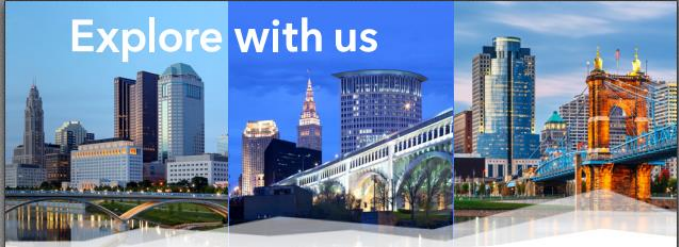
Presenter: Mr. S. Rao Chitikela, PhD, PE, PEng, BCEE, F.ASCE

Biography: S. Rao Chitikela holds a PhD in Civil Engineering and has a 30-yr work experience encompassing the government, industry, and academia. Rao is currently an independent consultant/expert on providing the water-infrastructure updating, energy-efficiency, and EHSs services. Dr. Chitikela has proven expertise on: drinking water quality; drinking water and wastewater processing, and effective disposal of solids; water-reuse; biogas-to-energy CHP renewable-systems and other renewables; air pollution control; and environmental permitting, auditing, & compliance verification. He is a registered professional engineer in a few states of US and AB-Canada, and AAEE board certified environmental engineer (BCEE) in the specialties of Water supply & Wastewater (currently, Chair of the



committee), Air resources and Pollution control, and Environmental Sustainability. Rao has advised with a technical leadership role on supporting the water-infrastructure upgrades at various cities, towns, and villages in the US, where the project(s) are delivered via a verified, guaranteed, and positive-cashflow observed performance assurance infrastructure delivery (PAID) model and that meeting requirements of sustainability and resilience.

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



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2023 District Science Day

The 2023 District Science Day, sponsored by the Ohio Academy of Science, was held on Saturday, March 18th at Columbus State Community College. The number of Science Projects were down this year due to this being the first year, post-COVID, where the projects were presented and judged in person. A Virtual Fair was also held on March 25th for those students who were not comfortable attending an in-person District Science Days or who were unable to attend their District Science Day due to another obligation.

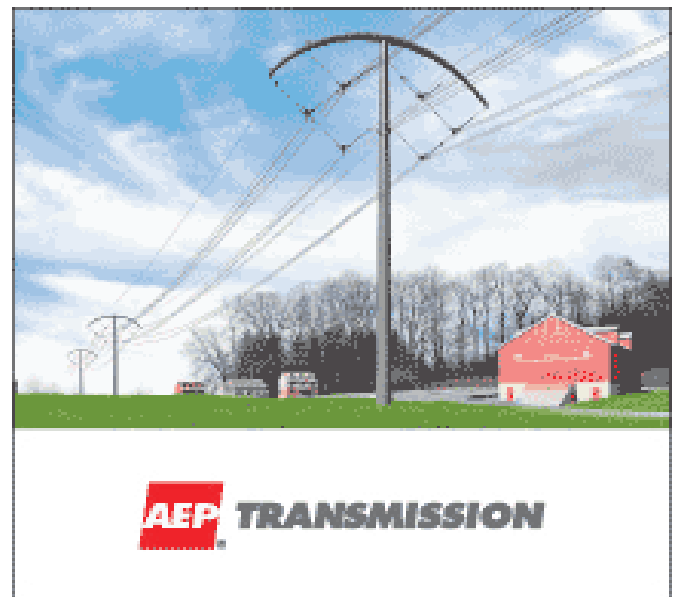
The 2023 Franklin County Chapter Science Day award recipients were:

1st Place – Aditya Pendse - a 6th grader from New Albany Intermediate School. His project was titled: *Thermo Magnético*. This student was extremely impressive with a professional presentation. He had a line of judges waiting to view his presentation.

2nd Place – Brionna Edwards - a 10th grader from Horizon Science Academy - Columbus. Her project was titled: *Solar Powered Automobile, A Look Into the Reduction in Greenhouse Gases*. This student also had a great presentation, and she was extremely passionate about her Science project. She plans to continue to pursue her interest in Solar energy.

3rd Place – Evan Mullendore – a 5th grader from New Albany Intermediate School. His project was titled: *Effect of Weight Placement on a Ravenwood Derby Car*. His presentation was also great, he had gotten his idea for this year’s Science project from working on a Derby Car for the Boy Scouts of America.

Thank you to Baba Yahaya, P.E. for chairing this year’s Science Day, working with the Ohio Academy of Science, and distributing the checks and certificates to each of this year’s award recipients! Also Thank You to the following FCC-OSPE Chapter members who participated as judges this year: Baba Yahaya, P.E., Rao Chitikela, PhD, P.E. and Tina Sutermeister, P.E.!





2023 MATHCOUNTS National Competition

Two of the Franklin County Chapter MATHCOUNTS participants were part of the four mathlete Ohio team that represented the State of Ohio at the 2023 Raytheon Technologies MATHCOUNTS National Competition from May 13-15th at the Hilton Orlando Lake Buena Vista complex. These two students were Arush Krisp, a seventh grader from Olentangy Shanahan Middle School, and Alex Zhang, an eighth grader from Eversole Run Middle School.

These two students competed with the best from all 50 states as well as U.S. territories and schools that serve the U.S. State and Defense departments. More than 30,000 students participated in the local and state competitions that led to this event which was the 39th in the MATHCOUNTS Foundation's history.

This year's event theme revolved around movies and red carpets to place Mathletes on par with celebrities and celebrate math as a crucial skill for society's success. The event highlighted film, animation and music to emphasize that math can be used in an array of creative fields, just like how the movie Hidden Figures showed how math was used to help NASA launch its first successful space missions.

"These Mathletes are the kind of problem solvers who will inspire a bright future for all of us," said Kristen Chandler, executive director of MATHCOUNTS. "I can't wait to see what incredible feats they accomplish with the skills they've

developed and displayed during their time in MATHCOUNTS."

This is the 14th year that Raytheon Technologies has served as title sponsor of the MATHCOUNTS National Competition as part of its global commitment to science, technology, engineering and math (STEM) education.

"Making it to the MATHCOUNTS National Competition is a great accomplishment and a testament to the students' perseverance, creativity and problem-solving skills," said Tracey Gray, vice president, Communications and External Affairs for Raytheon Intelligence & Space, a Raytheon Technologies business.

The Ohio team finished 19th out of 56 teams which is quite respectable and the seventh grader, Arush Krisp, from our Franklin County Chapter was the highest ranked Ohio mathlete in the MATHCOUNTS competition as he finished in the top 20% nationally. Congratulations to the Ohio team and coach for a great showing at this National Competition!

Below is a photo of Arush Krisp taken at the Chapter Competition:





2023 FCC-OSPE Awards

The Franklin County Chapter of the Ohio Society of Professional Engineers is honored to be able to recognize the following individuals with awards:

- **2023 FCC-OSPE Outstanding Engineering Educator Award**



Sandra Anstaett Metzler, PhD, P.E.

The FCC-OSPE Outstanding Engineering Educator award is presented to a member of the Engineering faculty of an ABET-accredited Engineering program at a University located in the Franklin County area. The award recipient shall have at least 5 years of experience subsequent to graduation from an accredited Engineering school and must be teaching an Engineering course during the current term. This award is based on the education/degrees earned by the recipient, special scholastic honors that the recipient has achieved, membership in Honorary societies, teaching experience, other Engineering Faculty Assignments, Professional Registration, Professional experience, Research completed and in progress, Papers, Publications and Patents, Presentations, outside activities, involvement in community programs and accomplishments, and awards and recognitions.

The Chapter had multiple nominations for the FCC-OSPE Outstanding Engineering Educator award this year and the Committee chose, with Board approval, Dr. Sandra Anstaett Metzler, PhD, P.E. Dr. Metzler is an Associate Professor of Practice in the Mechanical and Aerospace Engineering Department at The Ohio State University. Dr. Metzler has a

Doctorate of Science in Mechanical and Biomedical Engineering and a Masters of Science in Mechanical Engineering both, from Washington University in St. Louis, Missouri and a Bachelor of Science in Mechanical Engineering from Purdue University. Dr. Metzler is also a registered Professional Engineer (PE) in Ohio, Texas and Alabama and is a member of NSPE, OSPE and the Franklin County Chapter of OSPE.

Dr. Metzler previously held appointments at The Ohio State University as an Assistant Professor of Practice from 2014 to 2018 and Lecturer from 2011 to 2013. During her period as an Assistant Professor of Practice, and currently as an Associate Professor of Practice, Dr. Metzler continues to function as an Independent Consultant, providing her expertise and service in the areas of design and manufacturing and human factors engineering; an expertise that was developed from over 40 years of professional engineering experience.

Dr. Metzler also has an extensive background in industry having worked as a Technical Consultant at SEA, Ltd, Quality Engineer at Marion Merrell Dow, Industrial Engineer at General Motors and more. She utilizes her background in industry and academia in the practice of both, Mechanical and Biomedical engineering. She teaches a range of courses within the Mechanical Engineering Department, all of which involve the practice of engineering design. In her research, she develops innovative electromechanical products, tools and methods. Her teaching and research utilize structured engineering design methods as a framework for the application of mechanical engineering and the medical sciences to complex problems.

- **Continued, page 6**



Awards Program, continued -



Dr. Metzler actively collaborates with the researchers and clinicians in Rehabilitation Science and Technology at the Ohio State University, where she and her students provide technical and engineering expertise for a range of projects. In addition, a number of her research projects are centered within the Assistive Technology (AT) Center at Ohio State. These projects involve developing tools and methods to assist clinician scientists in better understanding patient outcomes, community-based data logging, and AT service delivery models. As a result of this work, we have commercialized several devices with outside partners and investors.

Dr. Metzler has been a dedicated engineering educator for many years and is nationally recognized as an expert witness in product liability, biomechanical injury causation, and Human Factors Engineering.

Dr. Sandra Metzler, PhD, P.E. is a dedicated engineering educator with a passion that is infectious. From Professor colleagues to students to the clinical collaborators that Dr. Metzler works with, they all have acquired education and skills far beyond the bounds of the College classroom. Skills that they would not have acquired without Dr. Metzler. She has truly made a large impact with the practice of design engineering and preparing both, our next generation Engineers and our next generation Professors for all the challenges that they might face throughout their career. The Chapter is honored to present the 2023 FCC-OSPE Outstanding Engineering Educator award to Dr. Sandra Metzler, P.E.

- **2023 FCC-OSPE Outstanding Engineering Student Award**

Ian Underburger

The FCC-OSPE Outstanding Engineering Student Award is awarded annually to a full-time undergraduate or graduate student at an accredited school of engineering in the State of Ohio. The student must have completed the junior year in undergraduate school. The Awards Committee makes the selection of the winning candidate, basing its judgment on the following criteria: scholastic achievement, participation in professional, technical and other college activities, contributions to fellow students, and community service. This year's Chapter award recipient, Ian Underburger, excels in all of these areas while maintaining a perfect GPA in the Structural Engineering program at The Ohio State University, College of Engineering, Department of Civil, Environmental, and Geodetic Engineering.



Ian graduated in the Spring of 2023 with a Bachelor of Science degree from The Ohio State University, College of Engineering, Department of Civil, Environmental, and Geodetic Engineering. Ian has achieved exemplary scholastic achievements while working on his Bachelor of Science degree in Civil Engineering. Upon graduation, Ian has already secured a position with Schaefer Engineering in Columbus Ohio performing Structural Engineering as an intern. Additionally, Ian plans to take the FE exam over the summer in a step towards becoming a Professional Engineer (PE). In the Fall, Ian will attend Graduate school at The Ohio State University to obtain a Master's degree in Structural Engineering. His Masters program will be tailored for a student planning on becoming a practicing PE in the future.

Ian is currently President of the OSU Student Chapter of the Structural Engineers Association of Ohio (SEAO). In this leadership position, he has worked on setting up finances for the Student Chapter and was also instrumental in establishing the leadership team for the current academic year. In October of 2022, Ian organized a site visit to a local construction site which was extremely well attended by the student members of SEAO. Ian continues to lead and make plans for other activities including the annual Mentoring Night, which has been an annual event where OSU students gather and meet with local structural engineers. In addition to his leadership with the OSU Student Chapter of SEAO, Ian is also a member of NSPE/OSPE and the OSU Student Chapter of OSPE.

While working on his Bachelor's degree at OSU, Ian did not take summers off but he chose to spend his summers working as either a summer intern or as an engineering co-op. In the Summers of 2020 and 2021, Ian worked at Concrete Sealants, Inc as an engineering intern and during the Summer of 2022, Ian worked as a Project Engineer Co-Op for Corna Kokosing Construction Co. Letters of Recommendations from the Engineering Managers that he reported to are included in this award package.

Ian's academic accomplishments are exemplary, and the combination of industry experience mixed with his course work equip him to continue to pursue his goal of becoming a Professional Engineer. The Franklin County Chapter of OSPE has reviewed some outstanding applications in the past for the Outstanding Engineering Student award. However, this student's credentials far exceed any that we have previously seen. FCC-OSPE is honored to present Ian Underburger as our 2023 FCC-OSPE Outstanding Engineering Student award recipient.

These award recipients will be recognized and receive their award at the upcoming 2023 FCC-OSPE Annual Awards and Installation Banquet. The applications for these 2 FCC-OSPE awards have been forwarded to OSPE for consideration at the State level for the equivalent State award. The State award winners will be revealed during the Awards Luncheon on Saturday, June 10th at the Nationwide Hotel and Conference Center in Lewis Center, Ohio. Support our Chapter Award recipients by attending this OSPE Awards Luncheon to see if these folks are also winners at the State Level!

Congratulations to all of the 2023 Franklin County Chapter Award recipients!!



Imagine Engineering 2023 Coloring Contest – Franklin County Chapter Finalists

This year, fifteen schools registered in the Franklin County Chapter area with over 1,000 students. Three entries were selected and awarded Chapter prizes. The three selected entries were submitted to EFO but did not win any statewide prizes. See the three winning Chapter entries on the following pages!



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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:

Landon Patton

School and City:

Dresden Elementary, Dresden, OH

Your Teacher's Name:

Mrs. Thompson

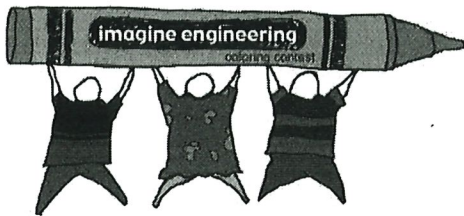
Prizes: The statewide winners will win:

- 1st place – Telescope (\$260 value) & art published in OhioENGINEER
- 2nd place – Digital Microscope (\$100 value)
- 3rd place – MathShark Skill Game (\$40 value)

**Thanks for participating
and HAVE FUN!**

Top of Coloring





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Name: Farrah Vosmeier
 School and City: Marysville Mill valley
 Your Teacher's Name: Mrs. Whight

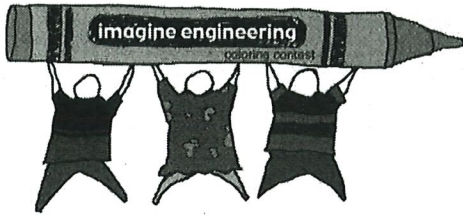
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Thanks for participating and HAVE FUN!

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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.

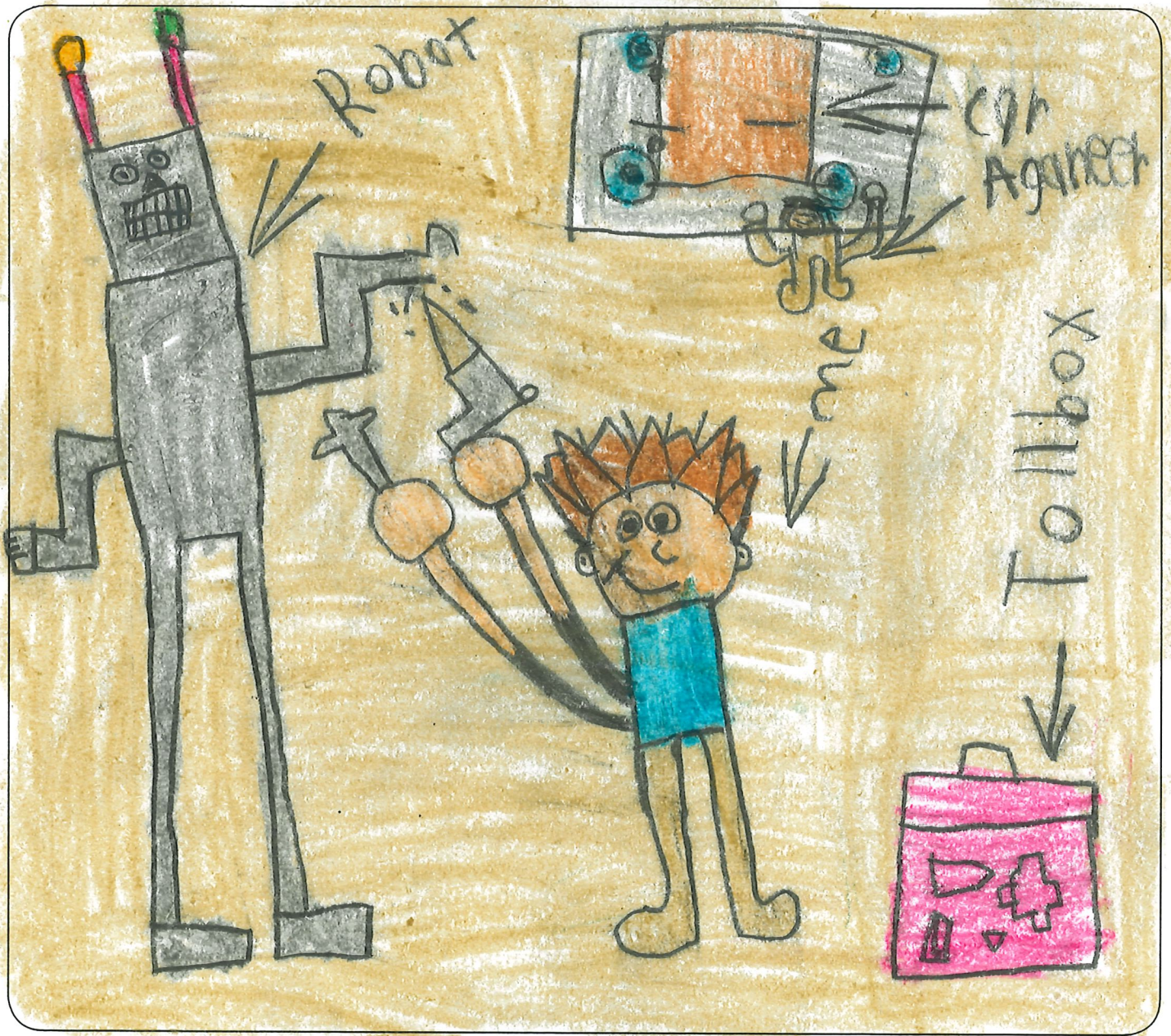
Name: Kipton Jones
 School and City: Mill Valley
 Your Teacher's Name: Wright

Prizes: The statewide winners will win:

- 1st place – Telescope (\$260 value) & art published in OhioENGINEER
- 2nd place – Digital Microscope (\$100 value)
- 3rd place – MathShark Skill Game (\$40 value)

**Thanks for participating
and HAVE FUN!**

Top of Coloring





Energy Department Invests \$26 Million to Support Clean Electric Grid

The Biden Administration Wednesday announced \$26 million in funding to demonstrate how solar, wind, storage and other clean energy resources can support a modern, resilient and clean energy grid.

Through the Energy Department, the funding will be distributed to eight selected projects across 15 sites, including 13 states and Puerto Rico, and build on numerous Energy Department-led efforts to combat climate change and promote clean energy.

“As threats and climate risks to America’s energy infrastructure continue to evolve, DOE is laser-focused on ensuring our power grid is strong and reliable as it incorporates a historic level of renewable resources,” Secretary of Energy Jennifer M. Granholm said in a statement. “Thanks to President Biden’s Investing in America agenda, today’s announcement will help build a resilient grid that the American people can trust to deliver reliable, affordable, clean electricity to their homes and businesses.”

The funding will flow through the Solar and Wind Grid Services and Reliability program to research teams consisting of “utilities, laboratories, universities and industry” to test how wind and solar power plants can more reliably transmit clean energy across power networks. According to the Energy Department, wind and solar energy could provide up to 80% of power generation on a clean electric grid.

Per the Energy Department announcement, the selected projects are:

Consolidated Edison (New York, NY): This project will demonstrate transmission protection strategies in New York and Virginia that will result in fewer outages as the grid moves to inverter-based generation. The success of this project will demonstrate to the transmission system protection, operation and planning industries that the grid can operate safely and reliably with any mix of energy sources—including up to 100% inverter-based resource generation. (Award Amount: \$3 million)

Electric Power Research Institute (Knoxville, TN): This project will work with multiple balancing authorities and utilities to perform demonstrations of grid services at sites across Michigan, Nebraska, Texas, New Mexico and California. The team aims to demonstrate the capability of these technologies to provide a collection of grid services reliably and over a period longer than what has been demonstrated in the past. (Award Amount: \$3.4 million)

General Electric Renewable Energy (Schenectady, NY): This project will demonstrate grid-forming inverters at the Great Pathfinder wind plant in Iowa. This demonstration will encourage confidence in grid operators to consider wind power

- Continued, page 12

Energy Department, continued -

plants as a more flexible stand-alone resource that can provide grid services over extended periods of time. (Award Amount: \$3.5 million)

National Renewable Energy Laboratory (Golden, CO): This project aims to further the understanding of the transmission grid’s behavior in response to faults in scenarios with high levels of inverter-based resource. The team will demonstrate strategies to protect the grid in Hawaii from rapid changes in generation, and develop new fault detection methods that will result in more reliable transmission. (Award Amount: \$2 million)

Pacific Gas and Electric Company (Oakland, CA): This project will develop an automated analysis tool for utility engineers to address rapid changes in the electric grid, such as increased solar generation. If successful, the tool can be incorporated in commercial platforms used by transmission utilities and system operators nationwide. (Award Amount: \$2.5 million)

Portland General Electric Company (Portland, OR): This project will demonstrate grid-forming inverters at the Wheatridge Renewable Energy Facility in Oregon, North America's first energy center to combine wind, solar and energy storage systems in one location. If successful, this will be the first bulk power system-connected grid-forming hybrid power plant in the United States and will encourage utilities to consider including grid-forming capabilities in their own interconnection requirements. (Award Amount: \$4.5 million)



University of Illinois at Chicago (Chicago, IL): This project uses an innovative modeling, protection and control framework to ensure reliable operation of a bulk power system with 100% of its generation coming from IBRs, which have much different fault characteristics than traditional synchronous generators. This project will demonstrate protection strategies in Illinois and Puerto Rico that will result in fewer outages. (Award Amount: \$3 million)

Veritone, Inc. (Denver, CO): This project aims to boost confidence in renewable power using Veritone’s artificial intelligence-powered distributed energy resource management system technology. The AI-powered platform will be used to forecast, optimize, and control IBRs on New Mexico’s power grid in real-time. (Award Amount: \$3.9 million)

(Excerpted from NSPE Daily Designs May 16, 2023)



2022-2023 OFFICERS, TRUSTEES & COMMITTEE CHAIRS

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2023 CALENDAR

DATE	TIME	DESCRIPTION
Jan. 6	5:00 p.m.	Deadline for January Columbus Engineer
Jan. 10	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Jan. 13	5:00 p.m.	Deadline for February Columbus Engineer
Jan. 19	12:00 p.m.	Program: Title "Engineering Advocacy in the 21 st Century – From Austerity to Abundance" – Presenter: Conrad Robinson
Feb. 10	5:00 p.m.	Deadline for March Columbus Engineer
Feb. 11	8:00 a.m.	Regional MathCounts Competition @ CSCC
Feb. 14	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Feb. 19 – 25		National Engineer's Week
Feb. 23	11:30 a.m.	Program: E-Week Luncheon - Villa Milano – Theme: "Creating The Future"
Feb. 22	8:00 a.m. – 3:00 p.m.	Engineer for a Day Program
Mar. 2	12:00 p.m.	Program: Title "Camp Ravenna Master Plan and Stormwater Control" – Presenter: Dustin Doherty
Mar. 2 – 3		Engineer's Leadership Institute
Mar. 10	5:00 p.m.	Deadline for April Columbus Engineer
Mar. 11	8:15 a.m. – 4:00 p.m.	Ohio MathCounts Competition @ CSCC (OSPE, see www.ohioengineer.com)
Mar. 14	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Mar. 24	12:00 p.m.	OSPE Lunchtime Legislative Briefing, Zoom meeting
Mar. TBD		District Science Day @ CSCC
Apr. 6	12:00 p.m.	Program: Title "Slope Stabilization and Methods of Landslide Remediation: – Presenter: Mehrdad Rowhani
Apr. 11	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Apr. 14	5:00 p.m.	Deadline for May Columbus Engineer
Apr. TBD		Legislative Day
May 4	12:00 p.m.	Program: Title "Healthcare" – Presenter: Ken Goodson
May 9	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
May 12	12:00 p.m.	Deadline for June Columbus Engineer
May 18	6:30 p.m.	Chapter Officer Installation & Awards Dinner
June 1	12:00 p.m.	Program: Title "Environmental Permitting" – Presenter: Rao Chitikela
June 2	5:00 p.m.	Deadline for July Columbus Engineer
June 13	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
June 30	12:00 p.m.	OSPE Lunchtime Legislative Briefing, Zoom meeting
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:	nabele@smeinc.com	(614) 746-7243
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:	baba.yahaya@terracon.com	(614) 328-5209
To volunteer to help with OSU Student Chapter:	Kayla.saggio@gmail.com	
To volunteer to help with Imagine Engineering:	TBD	
FCC Luncheons / Programs:	ddoherty@cecinc.com	(614) 359-6321
New Members / Membership Application	www.nspe.org or www.ohioengineer.com	(614) 223-1144



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