



# Columbus Engineer

## Franklin County Chapter

A chapter chartered by the Ohio Society of Professional Engineers.

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

April 2023  
Vol. 81 No. 7

### President's Message

Nathan Abele, P.E.  
– FCC President



On March 2<sup>nd</sup>, Dustin Doherty provided a presentation on Camp Ravenna Master Plan and Storm Water Control. On April 6th, Mehrdad Rowhani, PE, PMP is scheduled to present on Slope Stabilization and Methods of Landslide Remediation. Be on the lookout for additional information.

FCC-OSPE recently launched a LinkedIn Page. Check it out!

The Board is nominating candidates to be on the ballot to serve as offices for the upcoming fiscal year. We will be sending some minor changes to our Constitution & Bylaws for approval, along with the ballot for officers.

Congratulations to Alex Zhang and Arush Krisp, students from our Chapter who are advancing to the National MATHCOUNTS Competition.

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

Regards,

Nathan Abele, PE  
FCC-OSPE President



### OSPE-FCC April Luncheon Program

**Date:** Thursday, April 6, 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](http://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:** "Slope Stabilization and Methods of Landslide Remediation"

**Abstract:** In this presentation, the process of slope stability evaluation and landslide remediation methods including slope geometry modification, improving the drainage system, ground improvements, slope reinforcement and use of retaining structures will be reviewed. In addition, different types of slope stabilization methods including slope reconstruction, chemical stabilization, soil nailing, stone columns, soldier pile and lagging walls, gabion baskets, gravity and

- Continued, page 2

**Luncheon, continued -**

cantilever concrete walls, and MSE walls will be briefly described. Learning outcomes: 1-Stability Evaluation; 2-Slope Stabilization Methods; 3-Retaining Structures.

**Presenter:** Mehrdad Rowhani, PE, PMP, Senior Project Manager, Weaver Consultants Group

**Biography:** Mehrdad Rowhani, P.E., PMP currently serves as OSPE-FCC Vice President and Senior Project Manager for Weaver Consultants Group. He has more than 20 years of experience in civil infrastructure



projects including the design and construction of roadways and bridges, retaining walls, earth and rockfill dams, irrigation networks, water and wastewater refineries and networks, landfills, transmission lines, landslide remediation, and residential and commercial buildings. He is experienced in the design of shallow and deep foundations, soil stabilization methods, dewatering and excavation methods of underground structures, grouting and soil improvement methods. He is an expert in conducting geotechnical analyses such as seepage, settlement, slope stability and seismic analyses using numerical modeling tools. He has also been involved in numerous projects requiring complex soil-structure interaction analyses.

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

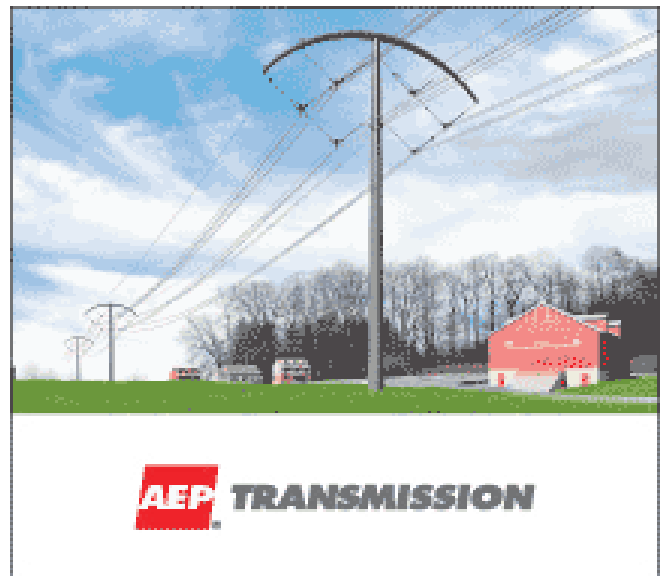


**Ohio Engineers Legislative Day,  
Friday, April 21**

Register by April 12 for Virtual Training

Earn 4.0 CPD hours online, Friday, April 21. This virtual program will cover interesting developments within our government and public policy initiatives that impact the Ohio PE! Registration fee: \$35 for NSPE/NSPE-Ohio/ASCE/IEEE members, \$50 for nonmembers.

Register: [Get program details & register online here.](#)



## Save the Dates All-Ohio Engineering Conference

- Virtual CPD, Thursday-Friday, June 8-9, 2023. 12 CPD hours including professional ethics/rules.
- In-person program (OSPE-EFO Past Presidents' Meeting, Awards Luncheon, OSPE/EFO Annual Meetings & Joint Installation Ceremony at Nationwide Hotel & Conference Center, Saturday, June 10, 2023.
- Clippers-Bats Baseball Game & Dinner at Huntington Park, Saturday, June 10, 2023.
- **Overnight rooms at Nationwide Hotel@ \$169 + tax per night.**  
Call 614-880-4300 with group code **332182** by **May 18 deadline.**



## Save the Date EFO 30<sup>th</sup> Benefit Golf Outing

- Support Kids' Programs & Scholarships, May 5, 2023, New Albany Links Golf Club, New Albany, OH
- JOIN US FOR: Lunch, Golf, Happy Hour a Steak Dinner, Awards & your chance at Prizes!
- Register at ... <https://ohioengineer.com/>

**Resourceful.**  
Responsive  
Reliable

Terracon is an employee-owned consulting engineering firm providing environmental, facilities, geotechnical, and materials services in all 50 states. With offices in Columbus, Cincinnati, and Cleveland, we're well-positioned to offer area clients practical and cost-effective solutions. By anticipating project requirements and adapting to challenges, we make it easy for you to work with us. Contact us for your next project. **Contact us for your next project.**

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

**Terracon**  
terracon.com

Environmental ■ Facilities ■ Geotechnical ■ Materials

## Major Pumped-Hydro Storage Project Moves Forward in Nevada

A Utah-based energy developer has filed a final license application for construction of a major pumped-hydro storage project in Nevada. rPlus Hydro on March 8 said it made the filing with the Federal Energy Regulatory Commission (FERC) for the company's 1,000-MW White Pine Pumped Storage installation in White Pine County.

White Pine, the first pumped-hydro storage project in Nevada, is expected to provide about eight hours of energy storage at peak output of 1 GW. Officials said the installation could supply power to support more than 12% of the state's peak electricity demand on a hot summer day.



- Continued, page 4

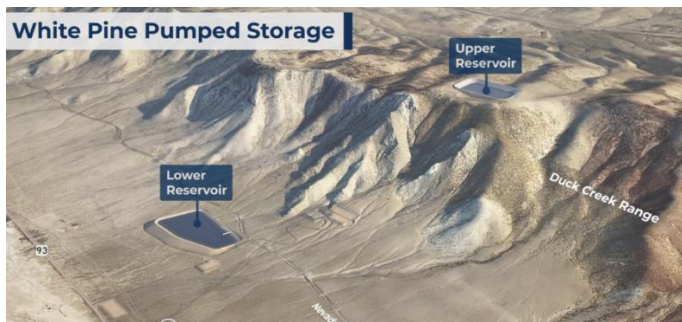
## Pumped-Hydro Storage Project, continued -

The project is the second developed by rPlus Hydro to reach the final license application milestone this year, joining the Seminoe Pumped Storage Project in Wyoming.

### \$2.5 Billion Investment

“White Pine is located at an important crossroads of existing, planned, and proposed electric transmission in Nevada,” said Matthew Shapiro, rPlus Hydro CEO. “From this location, the project would help the state meet peak power needs in its northern and southern load areas, and help stabilize the grid, while making the most effective use of renewable energy sources. With planned third-party transmission build-outs, the White Pine project will sit at the intersection of regional energy markets. It’s hard to imagine a more strategic location for this project.”

Local officials in White Pine County, located in east-central Nevada about 240 miles north of Las Vegas, said the project represents about a \$2.5 billion investment in Nevada’s energy infrastructure.



*The White Pine Pumped Storage project is the second rPlus Hydro project to reach the final application license milestone this year, and is one of only a handful of pumped storage projects to reach this stage in the past two decades. The project will provide Nevada with significant energy storage capability. Source: rPlus Hydro*

A pumped storage project can be thought of as a large battery that moves water back and forth between two reservoirs at different elevations to store energy and generate power. The cycle is repeated as needed to provide electricity and stabilize the power grid. The availability of pumped-hydro storage energy provides support for intermittent and variable renewable sources.

Officials in their announcement Wednesday said there are 43 pumped-hydro storage projects currently operating in the U.S., with more than 130 worldwide.

“We welcome the opportunity that White Pine Pumped Storage brings to further diversify our economic base and work force,” said Shane Bybee, chairman of the White Pine County Commission. “This is a key milestone in the project’s progression and demonstrates that rPlus Hydro is committed to our community and the ultimate success of this development.”

### \$12 Million in Tax Revenue

Officials said the project’s multi-year construction phase will create up to 500 construction jobs, and will support 35 full-time jobs once operational. It is expected to provide an estimated \$12 million in additional annual tax revenue for state and local governments.

Luigi Resta, president of rPlus Hydro, told POWER: “White Pine Pumped Storage’s strategic location within the Western grid uniquely positions the project to help balance the grid and ensure its reliability and stability through the remainder of the century as renewable energy grows in the market.”



- Continued, page 5



### Pumped-Hydro Storage Project, continued -

“White Pine County is geographically and politically positioned to be the future of Nevada’s energy production, transmission, and storage. rPlus is a leader in the energy storage arena, and without creative projects like these, Nevada’s growth in renewable energy developments can never become an efficient reality,” said Mike Wheable, White Pine County manager. “White Pine County recognizes the effort and resources rPlus has dedicated to achieving this step in the development, and is thankful to participate in this unprecedented and necessary project that will benefit all Nevadans.”

The license application filing means FERC will now begin an environmental review and licensing process for the project. Construction could start as early as 2025.

“The filing of White Pine Pumped Storage’s final license application with FERC represents an exciting milestone, and as Nevada’s first pumped storage project to reach this milestone, White Pine will play a substantial role in balancing the grid and enabling the integration of renewable energy— further demonstration of how the American West is leading the market in the energy transition,” said Resta.

*(Excerpted from NSPE Daily Designs March 14, 2023  
written by Darrell Proctor, a senior associate editor for POWER  
(@POWERmagazine)*



## 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 <sup>st</sup> 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 <a href="http://www.ohioengineer.com">www.ohioengineer.com</a> )
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:	<a href="mailto:nabele@smeinc.com">nabele@smeinc.com</a>	(614) 746-7243
FCC-OSPE WEBSITE:	<a href="http://www.fccospe.org">www.fccospe.org</a>	
OSPE WEBSITE:	<a href="http://www.ohioengineer.com">www.ohioengineer.com</a>	
NSPE WEBSITE:	<a href="http://www.nspe.org">www.nspe.org</a>	
To volunteer to help with MATHCOUNTS:	<a href="mailto:benjamin_brown68@yahoo.com">benjamin_brown68@yahoo.com</a>	(614) 519-8978
To volunteer to help with Science Day:	<a href="mailto:baba.yahaya@terracon.com">baba.yahaya@terracon.com</a>	(614) 328-5209
To volunteer to help with OSU Student Chapter:	<a href="mailto:Kayla.saggio@gmail.com">Kayla.saggio@gmail.com</a>	
To volunteer to help with Imagine Engineering:	TBD	
FCC Luncheons / Programs:	<a href="mailto:ddoherty@cecinc.com">ddoherty@cecinc.com</a>	(614) 359-6321
New Members / Membership Application	www.nspe.org or <a href="http://www.ohioengineer.com">www.ohioengineer.com</a>	(614) 223-1144

## 2022-2023 OFFICERS, TRUSTEES & COMMITTEE CHAIRS

	Name	Phone # (w) or (h)	Cell Phone #	E-mail Address
President	<b>Nathan Abele, PE</b>	614-793-2226 (w)	614-746-7243 (cell)	<a href="mailto:Nabele@smeinc.com">Nabele@smeinc.com</a>
Vice President	<b>Mehrdad Rowhani, PE</b>	614-389-4132 (w)	773-517-1036 (cell)	<a href="mailto:mehrdadrowhanipe@gmail.com">mehrdadrowhanipe@gmail.com</a>
Chapter Secretary	TBD			
Treasurer	<b>Steve Day, PE</b>	614-876-7525 (w)	614-531-2858 (cell)	<a href="mailto:lday1@columbus.rr.com">lday1@columbus.rr.com</a>
Past President	<b>Baba Yahaya, PE</b>	614-328-5209 (w)	614-517-7864 (cell)	<a href="mailto:Baba.Yahaya2@terracon.com">Baba.Yahaya2@terracon.com</a>
Administrative Assistant	<b>Dawn Morrison</b> <b>FCC-OSPE Website</b>	614-328-5148 (w)	614-313-3814 (cell)	<a href="mailto:dawn.morrison@terracon.com">dawn.morrison@terracon.com</a> <a href="http://www.fccospe.org">www.fccospe.org</a>
OSPE Executive Director	<b>Tim Schaffer</b>	614-223-1144 (w)		<a href="mailto:exec@ohioengineer.com">exec@ohioengineer.com</a>
OSPE/EFO Staff	<b>Pam McClure (ret., part-time)</b> <b>Holly Ross</b>	614-223-1144 (w-OSPE) 614-223-1177 (w-EFO)		<a href="mailto:admin@ohioengineer.com">admin@ohioengineer.com</a> <a href="mailto:pr@ohioengineer.com">pr@ohioengineer.com</a>
VICE-PRESIDENT	TRUSTEE/COMMITTEE	CHAIRPERSON	TELEPHONE	E-MAIL
Mehrdad Rowhani, PE	Vice-President	Mehrdad Rowhani, PE	614-389-4132 (w) 773-517-1036 (cell)	<a href="mailto:mehrdadrowhanipe@gmail.com">mehrdadrowhanipe@gmail.com</a>
	Programs/CPD/Activity	Dustin Doherty, PE, CPESC	614-310-2075 (w) 614-359-6321 (cell)	<a href="mailto:ddoherty@cecinc.com">ddoherty@cecinc.com</a>
	Membership	Dustin Doherty, PE, CPESC	614-310-2075 (w) 614-359-6321 (cell)	<a href="mailto:ddoherty@cecinc.com">ddoherty@cecinc.com</a>
	Young Engineer Trustee	Colleen Konsavage, PE	614-758-3048 (cell)	<a href="mailto:Ckonsav1@gmail.com">Ckonsav1@gmail.com</a>
	Retired Engineers Trustee	Bob Fuller, P.E.	614-880-9221 (h)	<a href="mailto:barbarafuller6438@att.net">barbarafuller6438@att.net</a>
	PEHE Trustee	Tim McCarthy, PE	614-670-1175 (cell)	<a href="mailto:tim_mccarthy@breezelineohio.net">tim_mccarthy@breezelineohio.net</a>
	OSU - Student Chapter Liason	Kayla Saggio, EI		<a href="mailto:Kayla.saggio@gmail.com">Kayla.saggio@gmail.com</a>
	Vice-President	TBD		
	Science Day (District)	Baba Yahaya, PE	614-328-5209 (w) 614-517-7864 (cell)	<a href="mailto:Baba.Yahaya2@terracon.com">Baba.Yahaya2@terracon.com</a>
	Scholarship	Joe Sullivan, PE	614-486-4383 (w) 614-561-5447 (cell)	<a href="mailto:jsullivan@msconsultants.com">jsullivan@msconsultants.com</a>
	Columbus Engineer - Editor	Howard Jones, PE	614-209-3289 (cell)	<a href="mailto:hrjones63@yahoo.com">hrjones63@yahoo.com</a>
	Engineers Week	CR Weaver, PE	614-645-7100 (w)	<a href="mailto:CRWeaver@columbus.gov">CRWeaver@columbus.gov</a>
	Engineer For A Day	Kayla Saggio, EI		<a href="mailto:kayla.saggio@gmail.com">kayla.saggio@gmail.com</a>
	PEG Trustee	CR Weaver, PE	614-645-7100 (w)	<a href="mailto:CRWeaver@columbus.gov">CRWeaver@columbus.gov</a>
S. Rao Chitikela, PE	Vice-President	S. Rao Chitikela, PE	412-310-9452 (cell) 614-818-4900 (w)	<a href="mailto:srao.chitikela@gmail.com">srao.chitikela@gmail.com</a>
	MATHCOUNTS Chair	Ben Brown, PE	614-519-8978 (cell)	<a href="mailto:ben.brown@ibigroup.com">ben.brown@ibigroup.com</a>
	Awards/Citations	Tina Sutermeister, PE	614-537-7660 (cell)	<a href="mailto:tsuterm@embarqmail.com">tsuterm@embarqmail.com</a>
	Legislative	Steve Day, PE	614-876-7525 (w) 614-531-2858 (cell)	<a href="mailto:lday1@columbus.rr.com">lday1@columbus.rr.com</a>
	PEI Trustee	Richard Smelker, PE	614-933-2236 (w)	<a href="mailto:rdsmelker@aep.com">rdsmelker@aep.com</a>
	EFO Liason	Steve Day, PE	614-876-7525 (w) 614-531-2858 (cell)	<a href="mailto:lday1@columbus.rr.com">lday1@columbus.rr.com</a>
	Chapter Directory	Zach Wedekind, EI		<a href="mailto:zwedekind@gmail.com">zwedekind@gmail.com</a>
Colleen Konsavage, PE	Vice-President	Colleen Konsavage, PE	614-758-3048 (cell)	<a href="mailto:Ckonsav1@gmail.com">Ckonsav1@gmail.com</a>
	Imagine Engineering Contest	TBD		
	Auxiliary Trustee	TBD		
	OSPE Director	Tina Sutermeister, PE	614-537-7660 (cell)	<a href="mailto:tsuterm@embarqmail.com">tsuterm@embarqmail.com</a>
	Constitution & By-Laws	Tina Sutermeister, PE	614-537-7660 (cell)	<a href="mailto:tsuterm@embarqmail.com">tsuterm@embarqmail.com</a>
	PEPP Trustee	Greg Nortz, PE	614-790-0029 (cell)	<a href="mailto:gregnortz@otisengineering.com">gregnortz@otisengineering.com</a>
	PEPP Trustee	Nathan Abele, PE	614-793-2226 (w) 614-746-7243 (cell)	<a href="mailto:Nabele@smeinc.com">Nabele@smeinc.com</a>
	PEC Trustee	Ken Goodson, PE	614-443-1178 (w)	<a href="mailto:kengoodson@hotmail.com">kengoodson@hotmail.com</a>



FIRST CLASS

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

