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The Official Publication of the Water Environment Association of Utah

# DIGESTED news

*Celebrating 50 Years of Clean Water*

## WEAU 2025 ANNUAL CONFERENCE

PREVIEW

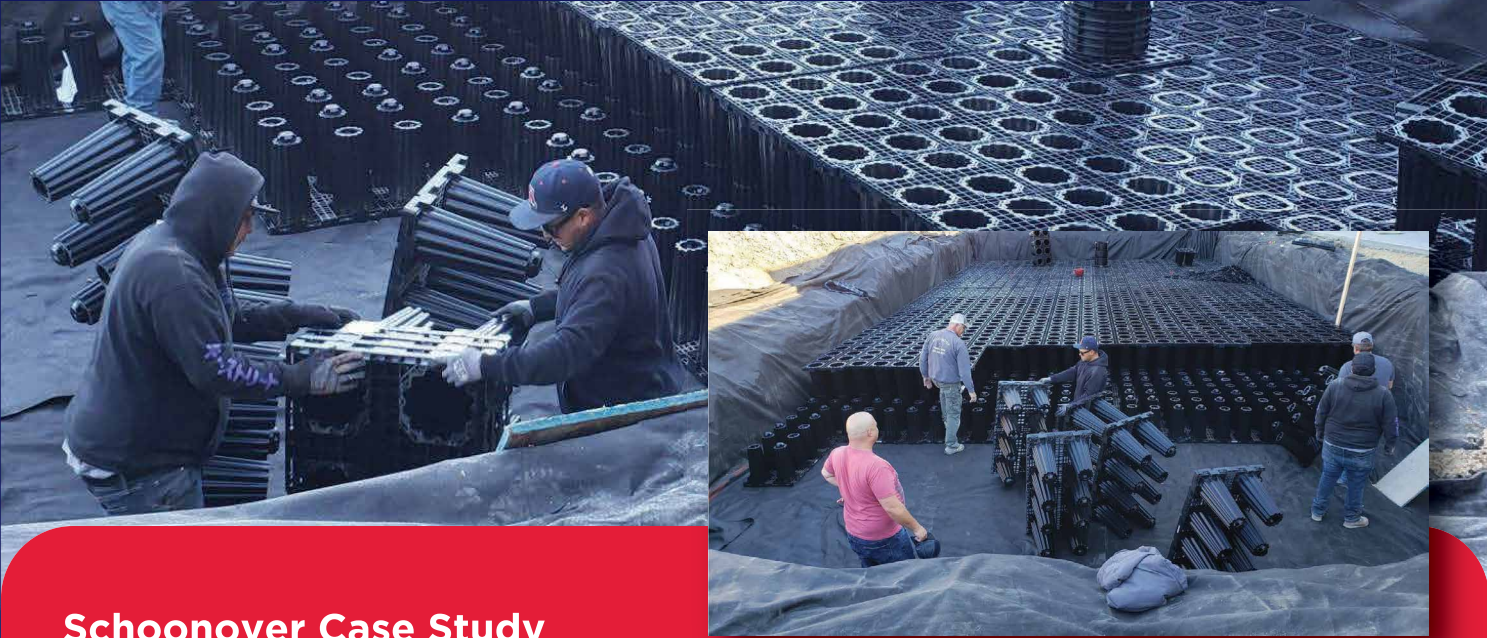
**INSIDE:**

WEAU Membership Elections | Operator and Professional Scholarship Awardees

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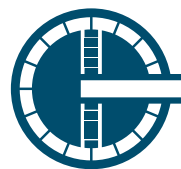
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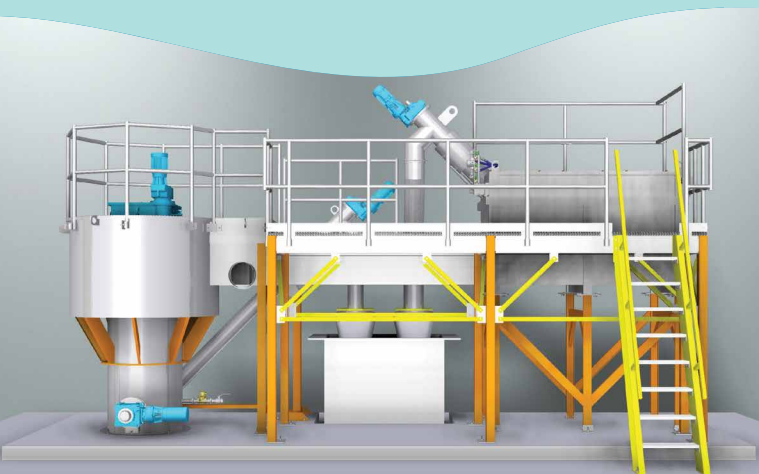
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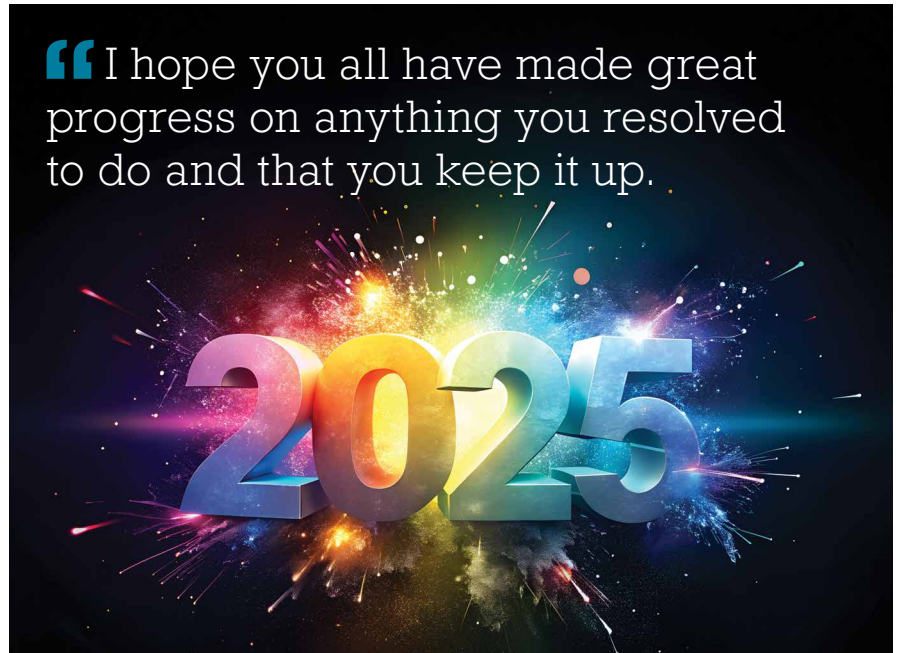
# Happy New Year

Once again it is time to restart the clock for the year. When this issue makes it to your hands, we will have already tasted some of 2025, but I hope you all have made great progress on anything you resolved to do and that you keep it up. We have a lot of things going on with WEAU that I wanted to bring up and remind you about as we roll into the year.

- Our Annual Conference Committee is hard at work with plans for another great conference April 22 to 25, 2025 at the Dixie Center. We are making some changes that we hope will support our membership, our vendors, our sponsors, and our consultants. We try our best to make this a great conference for everyone and hope you will all continue to support WEAU and our industry. We also have 13 Ops Challenge Teams signed up and are very thankful to every entity that sponsors a team at this event.
- It is also election time. I am very grateful for those that are willing to step into roles and serve, and I want to thank those that have been serving. Please support our board and the candidates as we prepare for the coming year.
- Our WEAU committees continue to hold training and events to support our membership. Keep an eye on our website for more information. WEAU will continue in 2025 to be a hub for the American Water College training courses. The Collection College will be held again this spring. The Young Professionals have regular events, and much, much, more.
- Finally, I wanted to let everyone know about the Quarter Century Operator Club sponsored by WEF. Review the criteria included in this issue for information on eligibility. We love to honor those that have been with us for such a long time.

Happy reading of this issue and thanks for your continued support.

**Chad Burrell**  
WEAU President



## 2025-2026 WEAU Elections and Board

Position (Same or Up for Election)	Position Filled By/Nominees
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<b>WEF Delegates</b>	Sarah Ward Clint Rogers
<b>WEF Delegate Elect</b>	Marlo Davis



## ABOUT THE QUARTER CENTURY OPERATOR CLUB

WEAU would like to make all of those that work in the wastewater field aware of the requirements to be eligible for the Quarter Century Operator Club.

The Quarter Century Operator Club recognizes operators of wastewater treatment facilities for their service and dedication in a difficult and dangerous profession. The Club was created under the sponsorship of Frank Woodbury Jones, who served as the Club's first registrar.

### ELIGIBILITY CRITERIA:

- Must be a Member of WEF for a minimum of five consecutive years immediately preceding application.
- Must be a significant, full-time participant in the water environment profession for a minimum of 25 years, 10-years of which must have been in active participation in the day-to-day collections, maintenance, operations, laboratory, or management of a wastewater transportation or treatment facility.
- Must have a completed and signed application (found on the WEF website under Quarter Century Operator Club).

### APPLICATIONS ACCEPTED FROM:

WEF Professional Wastewater Operations Members

### EMAIL OR MAIL APPLICATIONS TO:

Water Environment Federation Awards Program

Tori Cox ([tcox@wef.org](mailto:tcox@wef.org))

Manager, Association Engagement

601 Wythe Street

Alexandria, VA 22314

Phone: 703-684-2400, Ext. 7070

If you have questions and want to talk to a local, feel free to reach out to Chad Burrell, ([cburrell@sbwr.org](mailto:cburrell@sbwr.org) or 435-659-5805).

If application is approved by WEF in time for our annual conference, recipients will be recognized at the conference.

You may choose to have the award mailed to Chad Burrell so he has it for the presentation at the conference (SBWRD, Chad Burrell, 2800 Homestead Road, Park City, UT, 84098). [dn](#)



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**2. Schwalm Robotics:** In our continuous pursuit of cutting-edge solutions, Integrity Inspection Solutions is proud to introduce Schwalm Robotics to our suite of services. Schwalm Robotics represents the forefront of robotic technology for pipeline maintenance and rehabilitation. Equipped with advanced cutting capabilities, Schwalm Robotics allows us to precisely and efficiently remove obstacles, protrusions, or unwanted materials from pipelines. This technology is particularly useful in addressing challenges such as roots, intruding taps, or other impediments that may compromise pipeline functionality. By leveraging Schwalm Robotics, we enhance the accuracy and effectiveness of our pipeline maintenance services, ensuring a thorough and reliable solution for our clients. Trust Integrity Inspection Solutions for state-of-the-art robotic pipeline services designed to meet the evolving needs of the industry.

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# **GOBLE SAMPSON**



# A New Chapter for Digested News

Wyatt Andersen

**H**ello *Digested News* Readers,  
My name is Wyatt Andersen, and I am replacing Bryan Mansell as the new *Digested News* editor. Bryan has provided a lot of meaningful guidance and information over the last few months to make this transition happen. Cheers to Bryan on his future endeavors in WEAU. Katie Reams has played a significant role in *Digested News* in recent years, and she will continue to help me create meaningful content in the quarterly issues.

As part of my first Editor's Message, I would like to introduce myself and give some insight into how I found myself in the wastewater industry. I grew up in Farmington, UT, and lived there until I was 18- years-old. Growing up in northern Utah, alongside my family and friends, I enjoyed riding off-road motorcycles in places near Tooele, Delta, Price, Hurricane, and Boulder. This hobby allowed me to see the beautiful scenery and vast undeveloped areas that Utah has to offer. It made me realize that I want my future kids to enjoy these places without humans altering the environment in harmful ways.

After graduating from Davis High School, I decided to move to San Luis Obispo, CA, to attend California Polytechnic State University (Cal Poly). When applying

“My name is Wyatt Andersen, and I am replacing Bryan Mansell as the new *Digested News* editor.”

to Cal Poly, it is required to declare a major, which can be an intimidating decision as an 18-year-old. Because I enjoyed and excelled in mathematics and science classes in high school, I found myself looking into engineering. Since I grew up within the beautiful outdoors of Utah, my strong connection with the environment led to my decision to declare a major in Environmental Engineering – which ended up being a great decision. I liked that Environmental Engineering leaned more towards chemistry rather than physics like Civil Engineering did. Environmental Engineering had smaller graduating class sizes compared to Civil Engineering, which made it so that you could really get to know your classmates. I graduated from Cal Poly with a Bachelor of Science degree in Environmental Engineering and a Master of Science degree in Environmental and Civil Engineering, with a focus on water and wastewater.

My next step in life was to enter the workforce. I moved back to Utah and accepted an offer from Bowen Collins & Associates (BC&A). I gravitated towards BC&A because their primary focus is water and wastewater projects. I've now worked at BC&A for six and a half years, with most of my projects being in the wastewater sector. During my time here I have worked on a wide variety of projects including wastewater pump stations, large-diameter wastewater pipelines, wastewater collection system master plans, water pipelines, water master plans, storm drain pipelines, storm drain master plans, etc.

Over the past few years, I have made an effort to be involved in the WEAU Young Professionals group and I have also presented at the last two WEAU Annual Conferences in St. George. I look forward to continuing my involvement in WEAU as the *Digested News* Editor. [▶](#)

## FIND THE HIDDEN GOLDEN SLUDGE SHOVEL!\*

Each quarter, *Digested News* has this golden sludge shovel icon hidden somewhere in the content of its pages.

**Be the first to find it and email the editor** ([digestednews@weau.org](mailto:digestednews@weau.org)) the correct page number to **win an Amazon Gift Card – now \$50!**

Emails should include:

- Subject: I found the golden shovel
- Correct page number
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Winners will be notified directly and named in the next issue of *Digested News*.

\*For those of you new to WEAU, volunteers who give notable time and service to WEAU are awarded a “5S” golden lapel pin shovel. With that award, they become members of the **Select Society of Sanitary Sludge Shovelers**. WEAU is always looking for volunteers and maybe one day, you too can become a 5S member. [▶](#)



**CONGRATS TO:**  
**BENJAMIN SKOUSEN OF**  
**BROWN AND CALDWELL FOR**  
**FINDING THE GOLDEN SHOVEL**  
**ON PAGE 15 OF DIGESTED NEWS**  
**WINTER 2024.**

**ENJOY YOUR GIFT CARD!**

**Have feedback or suggestions?** We'd love to hear from you about what parts of *Digested News* you find helpful, or about what you'd like to see. Email us at [digestednews@weau.org](mailto:digestednews@weau.org).

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- DISINFECTION

# Collections Quiz

From Practice Exam 3  
By Dan Olson

1. A 54-inch storm sewer flowing half full, at a velocity of 1.35 ft/sec, will discharge how much flow into a creek in MGD?
  - A. 13.85
  - B. 10.73
  - C. 1.85
  - D. 6.92
2. Shoring must extend \_\_\_\_\_ above the top of the excavation.
  - A. 3 feet
  - B. 24 inches
  - C. 18 inches
  - D. 1 foot
3. A degreasing agent is added to a 16.0-ft diameter wet well that is 18.4-ft deep. 4.5 lbs is required for every 1-ft<sup>2</sup> of surface area. If the degreaser weighs 8.5 lbs per gallon and has a concentration of 13.8 mg/l, how many lbs of chemical must be added to the well?
  - A. 16,639.5 lbs
  - B. 0.78 lbs
  - C. 6,764.3 lbs
  - D. 904.3 lbs
4. In a trench deep enough to require a ladder(s), the worker must not be required to travel more than to get to the ladder?
  - A. 3 steps
  - B. 10 feet
  - C. 25 feet
  - D. 15 feet
5. What is the detention time in hours in a tank measuring 312 ft x 97 ft x 86 ft, if the tank receives 945,023 GPH?
  - A. 22.97 Hours
  - B. 2.75 Hours
  - C. 20.60 Hours
  - D. 12.36 Hours
6. Any excavation over \_\_\_\_\_ must have a ladder for the worker to get in and out of the trench
  - A. 25-feet long
  - B. 4-feet deep
  - C. 8-feet deep
  - D. 3-feet wide
7. A wet well is 9-feet deep by 21-feet in diameter. When the pump is not running, the water rises 33.4 inches in three minutes and 14 seconds. If the level falls 4.5 inches in 10.3 minutes while the pump is running, what is the pump rate in gpm?
  - A. 2,135 gpm
  - B. 2,323 gpm
  - C. 2,380 gpm
  - D. 6,801 gpm
8. Given the data below, what is the most likely cause of the lift station problem?  
*Wet well inlet is normal.  
 Well drops normally when pump #1 is running.  
 Well level rises slowly when pump #2 or pump #3 is running Run amperage is the same for all three pumps.  
 One of the pump motors turn backwards when off. Level system is reading correctly. Electrical controls are all in automatic.*
  - A. Pumps #1 and #2 are air-bound
  - B. Pump #1 check valve stuck open.
  - C. Either pump #1 or #2 is wired backwards
  - D. Check valve on pump #3 is clogged.
9. Sewer "A" has 106,000 people at 95 GPCD. Sewer "B" has 94,875 people at 100 GPCD. Sewer "C" has 88,756 people at 90 GPCD. What percentage of the flow is due to I&I if the total plant flow is 43.00 MGD?
  - A. 43.1%
  - B. 64.1%
  - C. 51.2%
  - D. 35.9%
10. An engineer must approve any trench shoring design above \_\_\_\_\_.
  - A. 4-feet deep
  - B. A water line
  - C. 50-feet in length
  - D. 20-feet deep
11. All simple slope excavations 20 feet or less in depth shall have a maximum allowable slope of \_\_\_\_\_.
  - A. 1:1
  - B. 4 feet
  - C. 20 feet
  - D. 1 1/2:1
12. A certain town's household flow rate is measured at 90 GPCD. If the plant receives 34.25 MGD, but 12% of that is inflow and infiltration, then what is the population of the town?
  - A. 334,889 people
  - B. 45,667 people
  - C. 3,699,000 people
  - D. 256,875 people 

## Answers

1-D, 2-C, 3-D, 4-C, 5-C, 6-B, 7-B, 8-B, 9-D, 10-D, 11-D, 12-A

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# Maintenance Quiz

Submitted by James Magill

1. **An explosion-proof enclosure \_\_\_\_\_.**
  - A. Can with stand and contain an internal explosion
  - B. Can withstand an external explosion
  - C. Is identical to a purged enclosure
  - D. Prevents internal explosions
2. **The pitch of a screw thread is \_\_\_\_\_.**
  - A. The angle included between the sides of the thread measured in the axial plane
  - B. The distance from a point on the screw thread to a corresponding point on the next thread
  - C. The angle included between the side of a thread and the centerline, measured in the axial plane
  - D. The distance a screw advances axially in one turn
3. **Which of the following “trouble causes” would be associated with a pump that fails to discharge on start-up?**
  - A. Leaks in the stuffing box
  - B. Excessive pump clearances
  - C. Lift too high
  - D. Air or vapor in the liquid
4. **A pump operating at 1,770 rpm supplies 6,500 gpm. The suction pressure is 10 psi and the discharge pressure is 75 psi. The specific gravity of the pumped liquid is 1.12. If the pump is 78% efficient and the motor is 86% efficient, what is the brake-horsepower?**
  - A. 276 hp
  - B. 354 hp
  - C. 408 hp
  - D. 463 hp
5. **A pump station has six 500 hp pumps that run an average of five hours per day each, a 5 hp sump pump that operates for five hours per day, 20 100-watt lights that are always on, and six 300-watt night lights that are on ten hours per day. What is the monthly operating cost if power cost 8.75 cents per Kwh? Assume a month is 30 days.**
  - A. \$29,373.75
  - B. \$29,388.44
  - C. \$29,514.44
  - D. \$29,561.69
6. **With which kind of equipment is PM effective?**
  - A. Equipment in any condition
  - B. Equipment in need of overhaul
  - C. Equipment that is up to standard
  - D. Equipment that is not up to standard
7. **The insulation in a capacitor is called \_\_\_\_\_.**
  - A. Condenser
  - B. Farad
  - C. Dielectric
  - D. Electrolyte
8. **Which kind of drawings use both nominal and actual dimensions?**
  - A. Architectural
  - B. Electrical
  - C. Installation
  - D. Riser
9. **You should never connect an electrolytic capacitor \_\_\_\_\_.**
  - A. Across a DC line
  - B. Across an AC line
  - C. With the common terminal negative
  - D. With the common terminal positive
10. **A signal of 4 to 20 MA is an example of a \_\_\_\_\_.**
  - A. Analog electrical signal
  - B. ASCII
  - C. Binary signal
  - D. Digital pneumatic signal
11. **Dual-voltage motors are \_\_\_\_\_.**
  - A. Always Delta-connected
  - B. Always Y-connected
  - C. Either Y- or Delta-connected
  - D. Neither Y-connected or Delta-connected
12. **Water is flowing through a 24-inch diameter pipe at 2.5 feet per second. What is the flow rate in gallons per minute?**
  - A. 3,525 gpm
  - B. 4,490 gpm
  - C. 5,260 gpm
  - D. 7,854 gpm
13. **The purpose of a shaft sleeve is to \_\_\_\_\_.**
  - A. Lengthen the pump shaft
  - B. Protect the pump casing
  - C. Reduce leakage
  - D. Protect the pump shaft
14. **What are the two primary types of anti-friction bearings?**
  - A. Ball and needle
  - B. Ball and roller
  - C. Ball and tapered
  - D. Ball and deep grooved
15. **The training room at your plant needs new carpet. If the room is rectangular in shape and measures 30 feet by 54 feet, how much carpet is needed? Answer in both square feet and square yards.**
  - A. 168 ft<sup>2</sup>, 18.7 yd<sup>2</sup>
  - B. 180 ft<sup>2</sup>, 1620 yd<sup>2</sup>
  - C. 1620 ft<sup>2</sup>, 180 yd<sup>2</sup>
  - D. 1620 ft<sup>2</sup>, 60 yd<sup>2</sup> 

## Answers

1-A, 2-B, 3-D, 4-B, 5-D, 6-C, 7-C, 8-A, 9-B, 10-A, 11-C, 12-A, 13-D, 14-B, 15-C





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# Operations Quiz

By Taylor Byrum

- Which of the following classes of compounds are NOT toxic to activated sludge microorganisms?**
  - Metals
  - Heavy metals
  - Pesticides
  - Carbohydrates
- How many gallons are 750 ft<sup>3</sup> of wastewater?**
  - 7,480 gallons
  - 8,340 gallons
  - 5,610 gallons
  - 6,510 gallons
- Open, enclosed, and semi-closed are terms used for the \_\_\_\_\_.**
  - Lantern rings
  - Stuffing boxes
  - Impellers
  - Sleeves
- A diaphragm pump is a type of \_\_\_\_\_.**
  - Dynamic feed pump
  - Positive displacement pump
  - Rotary pump
  - Centrifugal pump
- What is the definition of hazard?**
  - The capacity to cause harm
  - The change or probability that a person will experience harm
  - The practical assurance of no harm
  - Risk/safety
- A sewer system shall not be entered without a self-contained breathing apparatus (SCBA) if the hydrogen sulfide (H<sub>2</sub>S) level exceeds \_\_\_\_\_.**
  - 10 ppm
  - 100 ppm
  - 200 ppm
  - 500 ppm
- Which class of extinguisher should be used for electrical fires?**
  - Class A
  - Class B
  - Class C
  - Class D
- A common way to measure flow in a pipe is to \_\_\_\_\_.**
  - Use a magnetic flowmeter
  - Measure the speed of ping pong balls in the pipe
  - Measure how far the water sprays when it leaves the pipe
  - Measure the water level over a V-notch weir
- Pipes used for chemicals that are acidic or basic should be \_\_\_\_\_.**
  - Compatible with the chemical being pumped
  - Stainless steel
  - Polyvinyl chloride
  - Aluminum
- What is typically used as a safety device for machinery that may experience unusually high torque while running?**
  - Lockout/tagout system
  - High-pressure sensors
  - Air compressors
  - Shear pins 

## Answers

1-D, 2-C, 3-C, 4-B, 5-A, 6-A,  
7-C, 8-A, 9-A, 10-D

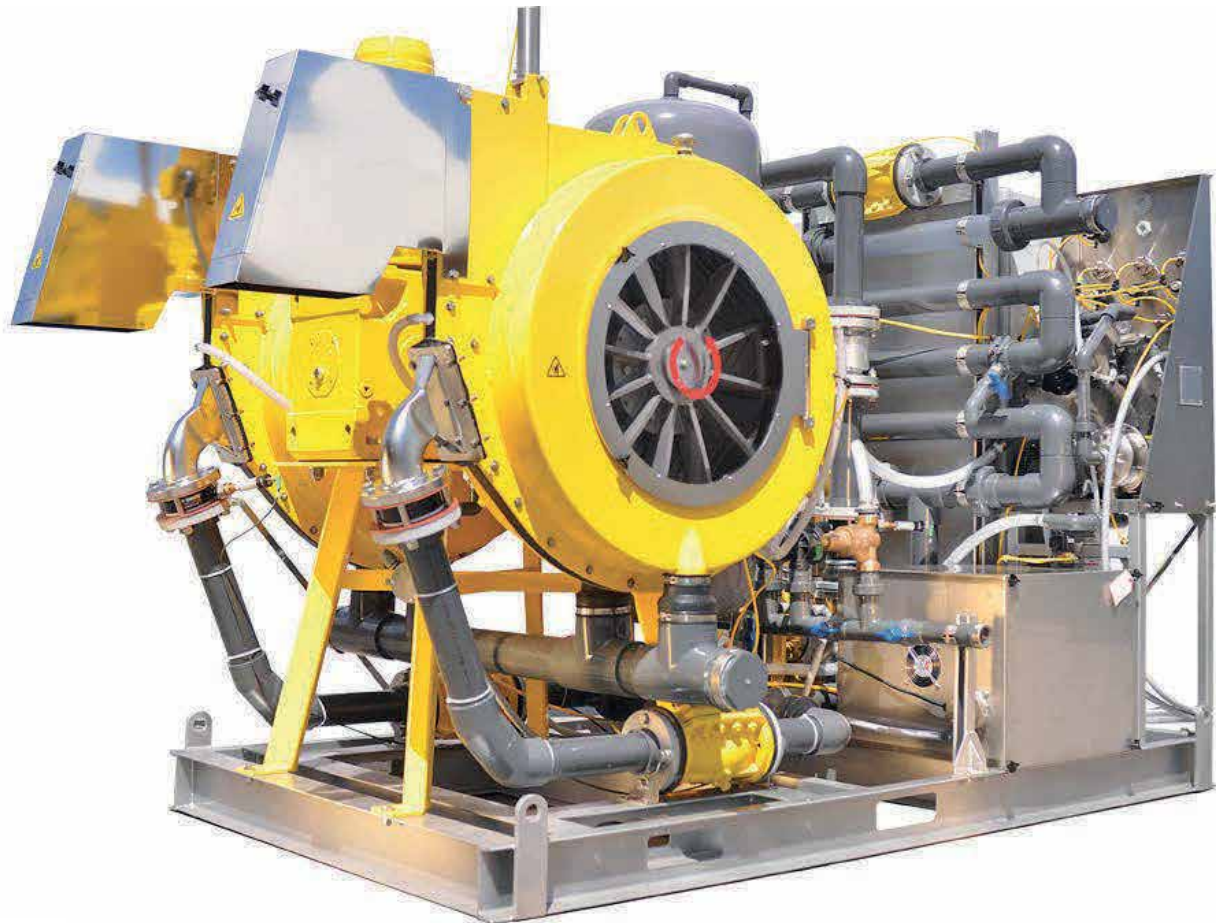




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# The Start of a New Year

By James Magill

**A**s we move into the new year, the OPS Challenge kicked off during the first week of January with a total of 12 teams. These include two from the south, 10 from the north, including two composite teams from five different entities. This year, Salt Lake City and Jordan Basin have also joined the competition. All teams will have 10 practice sessions with the equipment to prepare for the competition, which will take place in St. George on April 22-23, 2025.

This year's OPS Challenge looks to be one of the biggest events we've seen at the annual conference. The setup will begin on the morning of April 22, followed by the process test that afternoon. We aim to complete everything in time for participants to enjoy the golf tournament or the sporting clay shoots that same afternoon. On April 23, the day will start at 7:30 am with a Q&A session, followed by the four main events:

Lab, Safety, Maintenance, and Collections. The head judges for this year's events are Jeremy Deppe (Maintenance), Nate Cloward (Collections), Tyler Barfuss (Safety), and Sherry Sheffield (Lab). Austin Petersen and Gordan Call are the Operations Chairs.

We're excited about the possibilities this year brings and anticipate some changes to the annual conference. Stay tuned for updates from the committee. It's shaping up to be a long but rewarding day for judges, teams, and everyone involved in the OPS Challenge. We hope to see everyone in St. George for what promises to be an exciting competition as the teams vie for the first-place trophy.

An upcoming training opportunity on February 19, Central Valley Water Reclamation Facility will host a Basic Instrumentation Training session. We've had a great response for this event and

hope it evolves into a series of training sessions down the road. Additionally, we're working on organizing a non-certified crane rigging class, which would likely take place in March. This training would be incredibly beneficial, given how frequently construction affects us all. We're also in talks with a pump company to schedule a class in the future. We're working on finding a date that works for everyone and will share updates as soon as they're available.

Mark your calendars for June 5. We're thrilled to announce the PWO Golf Tournament, which will be held at Thanksgiving Point. Last year's tournament was a fantastic turnout and a lot of fun. If you haven't had the chance to golf there, we highly recommend it! The event also includes a delicious lunch. Once we finalize the agenda, we'll send out flyers with more details. [D&A](#)



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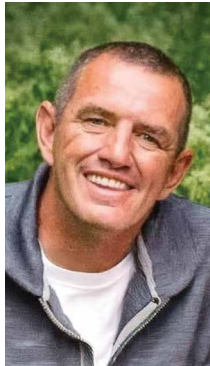
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# Operator Spotlight: Jay Connelly

**J**ay Connelly has been at Orem city for over 30 years full-time and almost 40 years counting his part time employment. His part-time years were in the water department and when he got on full-time in the wastewater section,




he found a great fit and never left. Jay has seen lots of changes over the years throughout the city that he has faithfully cleaned time and time again with his trucks – namely: Mustang Sally, Jenny 1, Jenny 2, and most recently, Ladybug. The majority of his career has been on a jet truck where he has been in charge of root cutting and foaming, easement lines, as well as routine hot spot cleaning. Jay knows the city like the back of his hand and can tell you which lines have roots in them without looking at the computer.

Jay is always eager to help wherever he can and does so without complaint. Whenever he’s asked to clean a line, his response is always the same: “I will be there in about 20 minutes.” True to his work, he usually arrives in about 15. He is the first to volunteer to go into a manhole, help with the other crews, and will work tirelessly until the job is done, whatever it may be. Jay is a person that you can always rely on.



I have never heard Jay say anything negative in the 20+ years that I have known him. He just shows up and does his job. His easygoing nature makes him a pleasure to be around, and he is a very likable person

with his witty sense of humor. Jay is a great employee and friend, and it will be next to impossible to fill his shoes when he retires – he does wear a size 13! The world needs more people like Jay Connelly. [D+](#)



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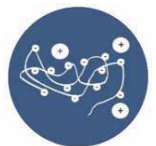


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# Operator Spotlight: Gauge O'Brien

**T**his quarter, I am pleased to introduce you to Gauge O'Brien. Gauge has been working for Salt Lake City Public Utilities for nine months as a mechanic. Before joining Salt Lake City, he worked in the Buildings and Grounds Department at Central Valley Water Reclamation Facility (CVWRF) for two seasons. There, he assisted with repairs and maintained the



grounds across various parts of the plant. Occasionally, he had the opportunity to assist the mechanics with working on equipment.

Gauge demonstrated his determination by graduating from high school two quarters ahead of schedule. After graduation, he returned to CVWRF as a temporary compost loader before obtaining his current position at Salt Lake City as a maintenance/operator. Since then, he has taken on the role of lead mechanic in a few areas: Secondary Systems, RAS, Chlorine building, and the Aeration Blowers.

Currently, Gauge is working toward obtaining his Grade 2 Operator Certification. His long-term goal is to pass all four operator certifications and the three maintenance tests to become a Grade 4

Maintenance/Operator. He is committed to learning as much as possible from the other mechanics and developing new skill sets, especially with all the new construction and processes being implemented at the plant. This is also Gauge's first year on the Operators Challenge team. He and his team are learning the events and developing routines for each challenge. Gauge is excited about the challenges and opportunities that lie ahead, and I'd like to wish them the best of luck this year.

Outside of work, Gauge enjoys a variety of hobbies. He started with playing the drums and guitar and enjoys camping and fishing with his family. He also has a passion for golf, spends as much time as possible practicing and playing whenever he gets the chance. **DM**

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# Five Tips to Engage Young Professionals in the Wastewater Industry and How WEAU Can Help

By Katie Reams

As the school year comes to a close, a new wave of fresh talent will be entering the workforce. This year, the WEAU Board and members have made it a priority to foster the growth of young professionals in the wastewater industry in Utah. However, retaining young professionals after they have entered the field is as important as recruiting them. Here are five tips your organization can implement to engage young professionals in the wastewater industry and how WEAU can support these efforts.

## 1. Provide Purpose and Vision

- Highlight the critical role the wastewater industry plays in protecting public health and the environment.
- Share success stories about the operations and projects happening in your organization.

- Encourage YPs to read or subscribe to WEF publications for national news via the WEF SmartBrief ([www.wef.org/publications/news/wef-smartbrief](http://www.wef.org/publications/news/wef-smartbrief)) or WEF News ([www.wef.org/publications/news](http://www.wef.org/publications/news)).
- Encourage YPs to read WEAU's quarterly magazine *Digested News* for updates on local news and events in Utah's wastewater industry. ([www.weau.org/digested\\_news](http://www.weau.org/digested_news)).

## 2. Create Opportunities for Skill Development

- Offer hands-on training while on the job.
- Send YPs to industry conferences, such as the WEAU Annual Conference, the WEAU Mid-Year Conference, or the WEAU YP Summit.
- Encourage YPs to attend one of the many WEAU offered training events

or seminars held throughout the year like the Leadership Training, PWO Training, Engineering Symposium, Pretreatment Training, or Lab Training.

## 3. Foster Networking and Collaboration

- Create cross-functional project teams that mix young professionals with experienced personnel to provide natural growth opportunities.
- Encourage participation in one (or all!) of the monthly WEAU YP events by emailing [yp@weau.org](mailto:yp@weau.org) to join the emailing list.

## 4. Recognize and Reward Contributions

- Develop recognition programs that highlight both YPs and more experienced employees.
- Implement rewards for young professionals, like funding for conference attendance or professional development courses, as a token of appreciation.
- Recommend your YP to be included in a spotlight in *Digested News* or at the next WEAU YP event by emailing [yp@weau.org](mailto:yp@weau.org).

## 5. Promote Flexibility and Work-Life Balance

- Offer mentorship programs that address career development and personal growth.
- Support volunteer opportunities through industry groups such as WEAU, WEF, or Women of Water. 



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# WEAll Young Professionals 2025 Annual Conference Events

## Wednesday, April 23<sup>rd</sup> | Ops Challenge & Social

### ◆ 8:00AM - 4:00PM | Dixie Convention Center

Stop by the exhibit hall to watch the YP Team compete in the Operations Challenge! The challenge is expected to run most of the day Wednesday, so you are welcome to stop by any time throughout the day to support our WEAU teams and learn about the important role that operators have in our industry.

### ◆ 6:00PM - 8:00PM | BigShots Golf

For the second year in a row, we are excited to host the Young Professionals social in conjunction with the Ops Challenge team members and volunteers! Join us for 2 hours of game play, dinner, and fun. **Registration is required in order to attend.** Please visit the WEAU website for registration details and to sign-up. Registration will close on **Tuesday, 4/15.**

## Thursday, April 24<sup>th</sup> | Networking Lunch

### ◆ 12:00PM - 1:30PM | Dixie Convention Center

Grab some lunch in the exhibit hall at the conference center and look for round tables labeled "Young Professionals" to network and play a short game with YPs.

## Friday, April 25<sup>th</sup> | Plant Tour

### ◆ 8:00AM - 11:00AM | TBD

All YPs are invited to attend a plant tour of a local treatment facility. Stay tuned for more details. Carpooling will be available.

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# 2025 WEAU MEMBERSHIP ELECTIONS



Elections for WEAU leadership positions are ongoing. Ballots should have arrived in the email inboxes of members of WEAU at the beginning of February. Completed ballots will be accepted through March 14, 2025. Below are photos and short bios for those that are running for each position in the election to help you get to know them. Ballots were sent to the email address you entered with WEF when you registered as a member.

## UP FOR ELECTION: President

### Steve Myers

Steve is a registered professional engineer in the state of Utah and has been involved in water and wastewater industry his whole career. He cut his teeth mowing lawns at Central Davis Sewer, where he cooled off in the mist coming from the trickling filters. Since then, he has worked as a design engineer locally with a couple firms and then transitions to the equipment supplier space where he spent time with Ovivo and now with Hach. He resides in Farmington, UT with his wife and five kids. For fun, he enjoys boating, electronics and technology, all racquet sports, and hiking up the mountain right behind his house – if only to just escape from the mayhem due to the aforementioned five kids.



## UP FOR ELECTION: President-Elect

### Gary Vance

Gary first became involved with WEAU back in 2007, volunteering for the Young Professionals committee. Other duties over the years have included organizing the student design competition and chairing the Annual Conference Committee. He has served on the Board for 5 years now as Vice President, Secretary, and Director. Gary notes, “My involvement with WEAU has been a great experience and has provided me the opportunity to get to know many terrific people in this industry. Like anything in life, you get out of it what you put into it.”

Gary received his undergraduate degree from the University of Idaho and MS in Civil/Environmental Engineering from the University of Colorado. After that, he served in the Peace Corps in the Dominican Republic designing and constructing gravity fed drinking water systems for 2+ years. He’s been in Utah for the past 18 years working as a program manager for wastewater treatment projects with J-U-B Engineers. He has many hobbies including hiking, camping, and skiing. His wife and two kids love exploring the southern Utah red rock country and visiting/working on our cabin up at Bear Lake. He also enjoys playing soccer, music, and traveling.





## 2025 WEAU MEMBERSHIP ELECTIONS

### UP FOR ELECTION: Vice President

#### Ben Skousen

Growing up in Utah, it didn't seem to matter if it was a family outing or BSA camp, Ben always ended up playing in water and coming home soaked. Many of his favorite activities, which include fishing, alpine skiing, and SCUBA diving revolve around water. So, it was a natural fit for Ben to study Civil Engineering with an emphasis on Water Resources at the University of Utah. Today, Ben is a Senior Associate Engineer with Brown and Caldwell, where he works in the master planning and modeling group. This has given Ben the opportunity to work on local and nation-wide projects over the last 11 years. Local clients include Central Valley Water Reclamation, North Davis Sewer District, Central Weber Sewer Improvement District, and Timpanogos Special Service District. Nationally, Ben has been involved in projects from New York, South Carolina, Colorado, Texas, Arizona, Nevada, California, Oregon, Hawaii, Guam, and Diego Garcia. Previously, Ben worked for Los Alamos National Laboratory (top secret, hush hush), and at MWH.

Ben's involvement with WEAU started with the YP committee where he helped coordinate the annual conference blood drive and the summer Bee's baseball game. He then transitioned to be the Technical Program Chair and now volunteers as the Annual Conference Chair. He considers his support of WEAU to be one of the most rewarding aspects of his career. What is the best part? WEAU has given Ben the opportunity to meet great people who all love water as much as he does.

Ben is married with two daughters that love theater and dance. Spending time with his family, either around the house or traveling, is his favorite activity. He enjoys going to school plays and dance competitions.



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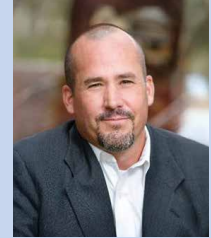
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## UP FOR ELECTION: Treasurer

### Randy Zollinger

Randy is a professional wastewater engineer with around 25 years of experience, who continues to work with many WEAU member utilities and enjoy working with them and Utah regulators to deliver wastewater improvement projects. Randy has been involved in WEAU since 2015, giving presentations at annual conferences, helping organize annual engineering symposiums, and – most recently – serving as the Treasurer for WEAU. He’s enjoyed the discussions he’s been able to have at symposiums and has been really impressed with WEAU operator involvement and student competitions. As Treasurer, Randy says he can continue to help advance WEAU goals and member vision.



## UP FOR ELECTION: Deputy Treasurer

### Lauren Schmidt

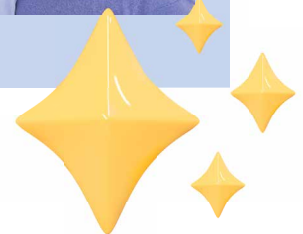
Lauren Schmidt is a licensed project engineer at J-U-B Engineers in Salt Lake City, UT. She is a member of J-U-B’s Water Treatment Group, with experience in planning, design, and construction of several wastewater treatment plant projects in Utah and Idaho. In addition to her work in the wastewater industry, Lauren has a strong passion for the growth and development of young professionals, having served as the WEAU Young Professionals Co-Chair for the past two years. She very quickly found a home within WEAU and has had extensive involvement in the organization for the past four years. In addition to serving as YP Co-Chair, Lauren has served as the Website Chair, assisted on the Mid-Year and Annual Conference planning committees, and is Team Captain of the YP Ops Challenge team. She has also made it a priority to bring WEAU’s efforts to the national level through her work on WEF committees, such as the WEF Students & Young Professionals Committee, the WEF YP Summit Committee, and the WEF Membership Community Committee. Lauren was born and raised in Orlando, FL, studying environmental engineering and chemistry at the University of Central Florida. She then earned her master’s degree in environmental engineering from Clemson University, with a focus in environmental chemistry. In her free time, Lauren loves to bake, dance, hike, visit family, and compete in speed puzzling competitions.



## UP FOR ELECTION: Secretary

### Brandon Wyatt

Brandon Wyatt is a Professional Engineer with Bowen Collins & Associates (BC&A) in Draper, UT. He was raised in Las Vegas, NV and attended Utah State University where he earned his degrees in civil and environmental engineering. His early career included stints as a laborer, framer, telemarketer, surveyor, and draftsman. Brandon has worked for BC&A for 17 years. When he’s not at work, he enjoys the outdoors and his family. He’s most happy when he can combine the two in family camping, hunting, or fishing trips. A member of WEAU since 2013, Brandon has been part of the Mid-Year Conference Planning Committee and the Annual Conference Planning Committee. He has served as Secretary for the Board of Directors since 2024 and enjoys the role. His favorite part of WEAU is getting to meet all the great people in the industry and he is constantly amazed at the dedication, skills, and talents of those who are part of the organization.





## 2025 WEAU MEMBERSHIP ELECTIONS

### UP FOR ELECTION: WEF Delegate-Elect

#### Marlo Davis

Marlo Davis is the Treatment Superintendent of the East Canyon Plant for Snyderville Basin Water Reclamation District in Park City, UT. He started at SBWRD in 1999 as an operator, in 2009 he was made the District's Pretreatment Coordinator, and then in 2013 was promoted to Treatment Superintendent. Marlo holds a Utah Wastewater Treatment IV Certification, a Collection IV Certification, and a Plant Maintenance II Certification.

Marlo has had the privilege of receiving the Water Environment Association of Utah Operator of the Year for Plant under 5 MGD Award in 2004, Pretreatment Specialist Award in 2011, and Supervisor of the Year Award in 2020. In 2014, WEAU also welcomed Marlo into the SSSSS Society. Marlo also has received two WEF awards, the William D. Hatfield Award in 2016 and the WEF Fellow Award in 2021.

Marlo has been involved with the operator challenge since 2004 when he first competed at the local level. In 2008, he got to compete at WEF on the Wasatch All Stars. Since then, he has been primarily involved in the judging and operational side of the operator challenge.

Marlo has been married to the love of his life for 33 years now. He has four amazing children. He enjoys being able to spend time camping and being outdoors with his family. He also loves being on his motorcycle, traveling wherever the road will take him and his wife.



### UP FOR ELECTION: Director Council 2 | James Goldhardt Running Against Navneet Prasad

#### James Goldhardt

James Goldhardt has been working in the water/wastewater industry for nearly 20 years, first working for Ovivo/Eimco (an equipment manufacturer) for nearly 15 years, learning and focusing on Biosolids Management. In 2021, James transitioned over to The Coombs Hopkins Company (a manufacturer's representative) and enjoys being able to work with so many wonderful individuals in the water/wastewater industry here in Utah. James has been involved with the WEAU for more than eight years as a committee member for the Biosolids Committee and is currently serving as the Co-Chair. He was born and raised in Utah and even attended the University of Utah where he graduated in Mechanical Engineering. James has been married for 23 years to his lovely wife Chesney. Together they have two daughters (Kinley, 19, and Alexis, 17) and one son (Spencer, 14). James and his family love nearly anything related to the outdoors and Utah (fly fishing, snowboarding, wake surfing, UTV riding, national parks, etc.) or just relaxing and spending time with each other.



#### Navneet Prasad

Navneet is an Electrical Controls Engineer working at Central Valley Water Reclamation Facility. He has more than 15 years of professional experience in diverse projects in North America and India. He has an MS in Electrical Engineering, and an MBA with a focus on Operations, Leadership, and Management. Most of his career has been spent on-site, in industrial facilities, managing and commissioning complicated control systems, electrical systems, and instrumentation. He has been involved with WEAU for the past three years and helped form the Digital Water Committee at WEAU which he has been the chair for since inception. Navneet recently passed his PE exam and is applying for the PE license for the state of Utah. When not working, Navneet loves spending time with his wife and daughter, enjoys playing cricket and soccer and loves traveling and seeing new places. His newfound love is snowboarding, and he loves going out in the mountains with his daughter, who loves skiing.





**UP FOR ELECTION: Director Council 4 | Jade Echard Running Against Katie Reams**

**Jade Echard**

Jade Echard has been a member of WEAU since her Sophomore year of college when she joined the student chapter of WEAU to compete in the annual student design competition. Jade competed in three competitions and was the student chapter president for almost three years. Jade joined Carollo Engineering in January of 2021 and has remained very active in WEAU. She is currently the chair of the Engineering Symposium. In her personal life, she just tries to keep up with her husband, her extremely busy almost one-year-old, and her two massive dogs.



**Katie Reams**

Katie is a licensed professional engineer at J-U-B Engineers in Kaysville, UT with more than 10 years of experience in designing water and wastewater treatment solutions. She has served communities across the country, including northern Utah, while accompanying her husband's Active-Duty Air Force career. After moving to Utah in 2019, Katie immediately became involved with WEAU through the Young Professionals (YPs) and currently serves as the YP Co-Chair and an editor for Digested News. Her favorite part of WEAU is meeting the people who truly care about improving the quality of life for those living in Utah. In both professional and extracurricular activities, Katie finds her strengths in creating meaningful relationships and connecting with people around her.

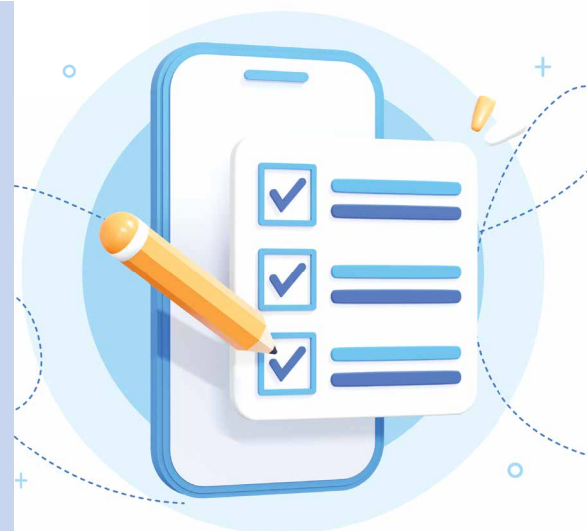


Katie is also an active member and the Outreach/Mentorship Director for Utah Women of Water (WoW), with a true passion for supporting women in the water/wastewater industry. If selected as a Director for WEAU, Katie intends to bring her energy and enthusiasm she has developed from her time with the YPs and WoW to the WEAU Board. She plans to be persistent in growing WEAU membership and providing a multitude of opportunities for professional growth of association members. In her free time, you can find Katie walking her dogs on one of Utah's many beautiful trails or spending time with her family at home.

**UP FOR ELECTION: PWO Representative**

**Taylor Byrum**

Taylor works in the maintenance department for North Davis Sewer as an Apprentice Electrician. Having decided that he wanted to make his career in this industry when he started as a treatment plant operator about eight years ago, he went back to school to help reach his professional goals. Outside of work and school, one of his favorite things to do is participate in the Operations Challenge. Taylor has been involved for five years, and has competed at Nationals for two of those years, both with the Wasatch All Stars. During conferences, he enjoys getting to know others just as much as he enjoys competing. In his spare time, he likes spending time with his wife and three kids. He also enjoys sports of all kinds, camping, fishing, and just about anything outdoors.





## 2025 WEAU MEMBERSHIP ELECTIONS

### UP FOR ELECTION: PWO Representative-Elect | Cole Tubbs Running Against Colby Willoughby

#### Cole Tubbs

Cole is a lifelong resident of Hooper, UT – a small-town community he’s proud to call home. He lives there with his wife, Emily, and three wonderful children. Cole is proud to say that he grew up in the ‘80s and graduated from Fremont High School in 1999. He has always appreciated the values and sense of connection that come from living in a close-knit community.

For the past 20 years, Cole has built his career in both the wastewater and drinking water industry, working to ensure safe and efficient water management for our communities. His journey began with 14 years at a Service District that managed both a collection system, and a small water distribution network. For the last six years, he has served as Lead Collections Operator at Central Weber Sewer Improvement District. Cole holds a Grade IV Operator License in wastewater treatment, collections, and drinking water distribution.


Cole is honored to serve on the Board of Trustee’s at Hooper Water Improvement District, where he has worked to advocate for the needs of his community and ensure sustainable water practices. He enjoys engaging with the public to educate them about the fascinating world of water – how we treat it, to provide clean drinking water and manage it responsibly on the wastewater side. After all, “Sewer happens!”

Cole still enjoys the agricultural lifestyle he grew up in. He owns horses and has a small herd of beef cattle. His family also enjoys the variety of outdoor activities that this great state of Utah has to offer, such as skiing, hiking, and camping. He really enjoys sharing his passions for outdoor activities with his family and others. Cole is running for this position because he cares deeply about his community and is committed to contributing to its continued success. With his experience, dedication, and passion for serving others, he would be honored to represent and serve you. He humbly asks for your consideration and support.



#### Colby Willoughby

Colby Willoughby is a Treatment IV operator at Snyderville Basin Water Reclamation District and has been in the wastewater industry for six years. He has participated with three operations challenge teams and has competed once in nationals. Colby has obtained a Treatment IV certification, Collections IV certification, and Plant Maintenance III certification. In 2023, he received the Outstanding Water Reclamation Operator Under 5 MGD award from WEAU. Colby has made a lot of connections by being involved with WEAU and is looking to expand even more by running for PWO.

In his personal life, Colby is married to his wife, Taylor, and has three boys. As a family they enjoy the outdoors, camping, farming, and traveling. He also enjoys coaching his boys in life and sports. As a “side hustle” he operates a small roll-off dumpster business in Summit County. 



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  - Take I-15 North to Exit #16.
  - Go South on SR-9 to the second set of stoplights.
  - Turn right (South) and follow the Southern Utah Shooting Sports Park signs.

#### What you will need

- A Shotgun:** Bring your own or rent one at the club for \$5.00
- Ear and Eye Protection:** All people at the range are required to wear ear and eye protection at all times.
- Hat:** We can't predict where broken clays will land after they are shot so we recommend a hat to protect your face.
- Clothes:** Wear good shoes/boots that will allow you to walk the course in comfort. We discourage the use of sandals. Comfortable clothes that allow you free movement are best.

#### Prizes for 1st, 2nd, 3rd, and last place scores!

## 7<sup>th</sup> Annual Sporting Clay Shoot

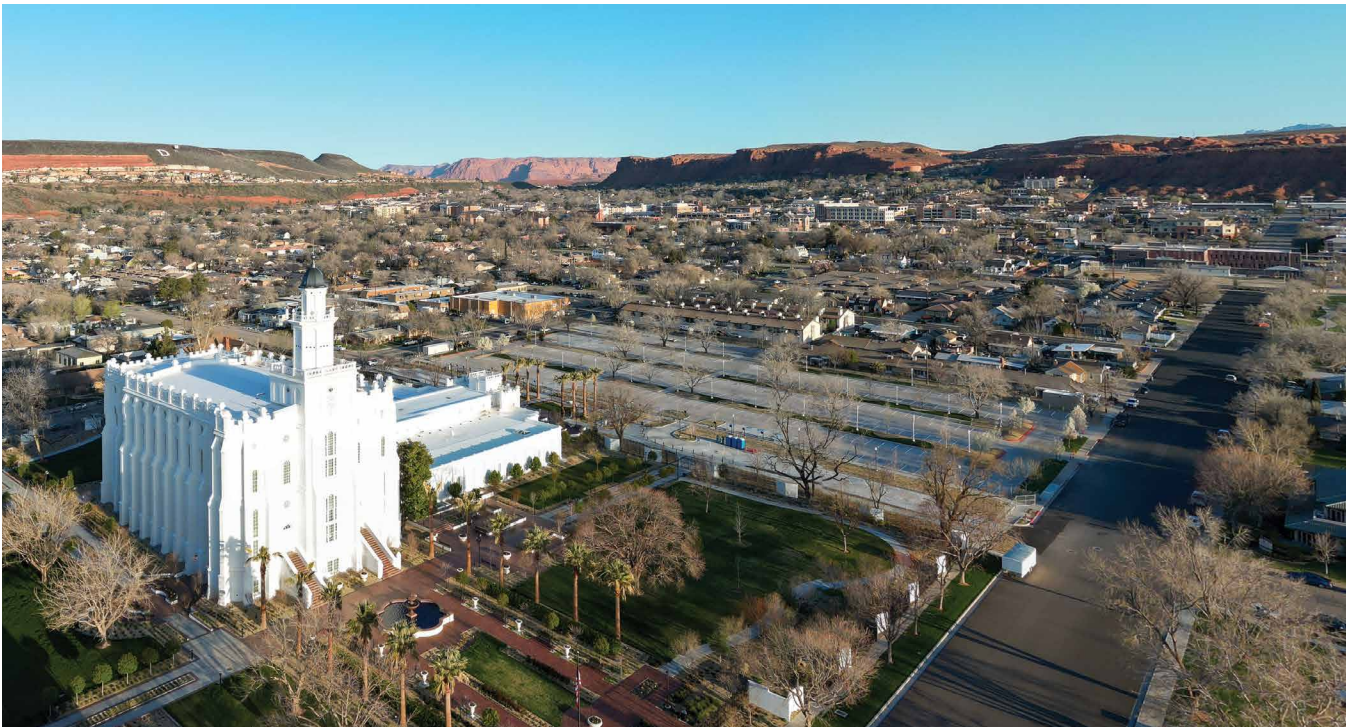
Tuesday, April 22<sup>nd</sup> 2025 | Purgatory Clay Sports  
Lunch from 1:30pm-2:00pm | Shotgun starts at 2:00pm and 3:00pm

**\$10/person, includes 50 targets. Please bring your own ammunition. A limited amount of ammunition may be available for purchase on-site.**

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# TECHNICAL PROGRAM SCHEDULE

**WEDNESDAY, APRIL 23, 2025**

12:00 to 1:20 pm	OPENING AWARDS/LUNCH					
	Entrada A	Entrada B	Entrada C	Sunbrook A	Sunbrook B	Sunbrook C
TOPIC	DIGITAL WATER	INDUSTRIAL WASTEWATER	ASSET MANAGEMENT	NUTRIENT REMOVAL	PUBLIC INVOLVEMENT/ OUTREACH	PROCESS CONTROL
1:30 to 2:10 pm	<p><b>Navigating SCADA Upgrades: Strategic Planning Insights</b></p> <p>Jason Israelsen, APCO Inc.</p>	<p><b>Creative Hyperboloid Technology for Industrial Wastewater Treatment</b></p> <p>Jackie Lauer, INVENT Environmental Technologies</p>	<p><b>Innovating Sewer Condition Assessments with AI, Web, and Cloud Technologies</b></p> <p>Nino Rivas, CUES/SPX</p>	<p><b>Update on Advancing Low-Energy Biological Nutrient Removal</b></p> <p>John Richardson, Black &amp; Veatch</p>	<p><b>Blue Stakes: What You Don't Know but Should</b></p> <p>Mary Ferrin, Blue Stakes of Utah 811</p>	<p><b>Lessons Learned from the Front Lines of Multiple MBR Start-ups</b></p> <p>Zach Frieling, AE2S</p>
TOPIC	DIGITAL WATER	WASTEWATER FACILITIES	ASSET MANAGEMENT	NUTRIENT REMOVAL	COLLECTION SYSTEMS	PROCESS CONTROL
2:15 to 2:55 pm	<p><b>AI in Wastewater: Turning Buzzwords into Better Operations</b></p> <p>Bryan Mansell and Navneet Prasad, CVWRF</p>	<p><b>Eliminating the Wet Well</b></p> <p>Brad Hitselberger, Industrial Flow Solutions</p>	<p><b>From Small to Large: How Asset Insight Utilizing Digital Tools Drives Excellence in Utilities</b></p> <p>Ben Stanford, Hazen and Sawyer</p>	<p><b>Learnings from Kurt R. Segler Water Reclamation Facility Upgrades for Phosphorous Removal</b></p> <p>Jayesh Charthal, Jacobs Engineering</p>	<p><b>Pinpointing Infiltration and Inflow (I&amp;I) Using High Density Sensor Networks</b></p> <p>Eric Petersen, RH Borden and Company</p>	<p><b>Benefits of New Variable Frequency Drives Technology for the Wastewater Industry</b></p> <p>Brett Payne, Codale Electric</p>
3:00 to 3:30 pm	BREAK					
TOPIC	DIGITAL WATER	WASTEWATER FACILITIES	ASSET MANAGEMENT	NUTRIENT REMOVAL	COLLECTION SYSTEMS	PROCESS CONTROL
3:35 to 4:15 pm	<p><b>Improving Cybersecurity at Facilities and How You Can Help</b></p> <p>Jason Stansfield, North Davis Sewer District</p>	<p><b>Benefits of Pilot Testing</b></p> <p>Todd Marshall, HUBER Technology, Inc.</p>	<p><b>Tucson Water's 18-Year PCCP Monitoring Program</b></p> <p>Britt Klein, Xylem</p>	<p><b>Electro-Biochemical Reactor Demonstrates Successful Nitrate Removal in St. George, UT</b></p> <p>Elise Hotz, WesTech Engineering</p>	<p><b>Sewer-Monitoring Technology Helps Utah Wastewater Utilities Manage Resiliency Challenges in Real Time</b></p> <p>Eric Van Cleave, SmartCover Systems</p>	<p><b>WRF 5121 Final Report Overview: Long-Term Evaluation of Hybrid Digital Twins at Three Full-Scale WRRFs</b></p> <p>Bruce Johnson, Jacobs</p>
TOPIC	DIGITAL WATER	WASTEWATER FACILITIES	ASSET MANAGEMENT	NUTRIENT REMOVAL	COLLECTION SYSTEMS	PROCESS CONTROL
4:20 to 5:00 pm	<p><b>Introducing Digital Transformation to Solve Operational Challenges</b></p> <p>David Williams, inCTRL Solutions</p>	<p><b>Domestic Advanced Primary Wastewater Treatment Utilizing Pile Cloth Media Filtration for Operational Savings, Increased Biogas Production, and Wet Weather Treatment</b></p> <p>Vedansh Gupta, Aqua-Aerobic Systems, Inc.</p>	<p><b>The Future is Here: Artificial Intelligence, Machine Learning, and Advanced Pipeline Condition Assessment Technologies</b></p> <p>Jeff Maier, Dewberry Engineers, Inc.</p>	<p><b>Activated Sludge Dynamic Filters Achieve BNR Limits in a Small Footprint</b></p> <p>Dennis Barnes, Xylem, Inc.</p>	<p><b>Reducing Life Cycle Costs for Wastewater Pumping Systems</b></p> <p>Aaron Terry, Xylem/Flygt</p>	<p><b>Utility Resilience is Built on Reliable Power and More Than Just Backup Generators!</b></p> <p>Don Dickinson, Phoenix Contact</p>

## TECHNICAL PROGRAM SCHEDULE

THURSDAY, APRIL 24, 2025 | AM

8:00 to 8:30 am	REGISTRATION/BREAKFAST					
	Entrada A	Entrada B	Entrada C	Sunbrook A	Sunbrook B	Sunbrook C
TOPIC	OPERATIONS TEST PREP	OPERATIONS INCENTIVE TRACK	WASTEWATER FACILITIES	PROJECT DELIVERY	WATER RECLAMATION AND REUSE	COMPLIANCE
8:30 to 9:10 am	<b>Testing Takeover: How to Take Your Wastewater Operator Certification Exam</b> Tessa Scheuer, DEQ	<b>Adjusting Manholes Using Non-Corrosive Forms</b> Josh Surratt, SBWRD	<b>Plant Hydraulics and Differential Settlement: The Delicate Dance at SLC WRF</b> Grant Davies, AECOM	<b>Benefits of Collaborative Project Delivery</b> Andy Mally, Black & Veatch	<b>Reuse Water in Western US</b> Russell Sprague, AE2S	<b>Permit Insight from Permit Writers</b> Daniel Griffin, DEQ
TOPIC	OPERATIONS TEST PREP	OPERATIONS INCENTIVE TRACK	WASTEWATER FACILITIES	PROJECT DELIVERY	WATER RECLAMATION AND REUSE	RESIDUALS AND BIOSOLIDS
9:15 to 9:55 am	<b>Understanding Solids Analyses</b> David Smith, Environmental Express	<b>Sector Control Programs: Fats, Oils, and Grease Management</b> Adam Butterfield, Jordan Basin Improvement District	<b>Delivering in the Present, Planning for the Future</b> Will Peterson, AECOM	<b>Construction Problem Solving</b> Mike Kobe, Brown and Caldwell	<b>A Convertible Treatment Process</b> Nick Cooper, AECOM	<b>Facing Uncertainty? Planning for a (Bio)solid Future</b> Josh Donegan, Brown and Caldwell
9:55 to 10:30 am	BREAK					
TOPIC	OPERATIONS TEST PREP	OPERATIONS INCENTIVE TRACK	WASTEWATER FACILITIES	PROJECT DELIVERY	WATER RECLAMATION AND REUSE	RESIDUALS AND BIOSOLIDS
10:35 to 11:15 am	TBD	<b>PLC Programmer</b> Travis Winger, CVWRF	<b>Provo City WRF Plant Upgrades Update 2025</b> Jenny Calderon, WaterWorks Engineers	<b>The IRA: Turning a WRF Upgrade into Tax Deductible Energy Property</b> Susan Spore, Brown and Caldwell	<b>Innovative Solutions for Sustainable Water Management: A Demonstration of Potable Water Reuse</b> Bryan Bedell, Haskell	<b>Dewatering Challenges and Simplified Cake Reduction</b> Jason Benson, AE2S
TOPIC	OPERATIONS TEST PREP	OPERATIONS INCENTIVE TRACK	WASTEWATER FACILITIES	PROJECT DELIVERY	WATER RECLAMATION AND REUSE	RESIDUALS AND BIOSOLIDS
11:20 am to 12:00 pm	TBD	<b>You're Never Too Big to Listen to the Little Guys: Understanding Activated Sludge</b> Dustin Gloor, CVWRF	<b>Salem City WRF and Collection System Master Planning</b> Michael Roman, Water Works Engineers	<b>Collaboration in Confluence Park: CMGC Delivery</b> Jeremy McVey, Haskell	<b>Developing a Nimble Advanced Water Purification Piloting and Demonstration Program</b> Tim White, Brown and Caldwell	<b>Lessons Learned from the First Full-Scale PFAS Air Testing and Tracking in a Gasification Facility</b> Mohammad Abu-Orf, Hazen and Sawyer
12:00 to 1:20 pm	BUSINESS LUNCH					

# TECHNICAL PROGRAM SCHEDULE

THURSDAY, APRIL 24, 2025 | PM

	Entrada A	Entrada B	Entrada C	Sunbrook A	Sunbrook B	Sunbrook C
<b>TOPIC</b>	<b>OPERATIONS TEST PREP</b>	<b>OPERATIONS INCENTIVE TRACK</b>	<b>WASTEWATER FACILITIES</b>	<b>PROJECT DELIVERY</b>	<b>WATER RECLAMATION AND REUSE</b>	<b>RESIDUALS AND BIOSOLIDS</b>
1:30 to 2:10 pm	TBD	<b>Strength in Numbers: Utilizing the Wastewater Community</b> Aaron Britton, CVWRF	<b>Shrinking the MBR Footprint Even More</b> Richard Kelly, Brown and Caldwell	<b>Evolving Project Delivery Models: Collaborative Design-Build Plus</b> Andrew Hobson, J-U-B Engineers	<b>Advanced Reuse Regulatory Frameworks and How Utah Might Consider Similar Guidance</b> Topher Jones, Brown and Caldwell	<b>Evaluating Phosphorus Recovery from Biosolids as a Method to Address Eutrophication in the St. Johns River Catchment and Beyond</b> Sarah Guzman, Black & Veatch
<b>TOPIC</b>	<b>OPERATIONS TEST PREP</b>	<b>OPERATIONS</b>	<b>WASTEWATER FACILITIES</b>	<b>PROJECT DELIVERY</b>	<b>WATER RECLAMATION AND REUSE</b>	<b>RESIDUALS AND BIOSOLIDS</b>
2:15 to 2:55 pm	TBD	<b>Are Your Bugs Happy?</b> Scott Schaefer, AE2S	<b>SLC WRF 2024: The Year of Concrete</b> Tess Laffer, AECOM	<b>Scan to BIM Technology: Enhance Your As-Builts in Real Time</b> Brian Gowers, Skyline Electric Company	<b>Wastewater Disposal with the New Reuse Requirements</b> Brad Rasmussen, Aqua Engineering	<b>Provo Solids Train Enhancement: Recommended Upgrades and Advanced Treatment Options</b> Eddie Gilcrease, Water Works Engineers
3:00 to 3:30 pm	BREAK					
<b>TOPIC</b>	<b>OPERATIONS TEST PREP</b>	<b>OPERATIONS</b>	<b>WASTEWATER FACILITIES</b>	<b>PROJECT DELIVERY</b>	<b>WATER RECLAMATION AND REUSE</b>	<b>RESIDUALS AND BIOSOLIDS</b>
3:35 to 4:15 pm	TBD	<b>SVWRF PFAS Study and What WE Have Learned Along the Way</b> Lee Rawlings, South Valley WRF	<b>Aging Gracefully: Targeted Investments for Increased Reliability at ECWRF</b> Colby Willoughby, Snyderville Basin Water Reclamation	<b>Risk Management and Best Practices for Large Capital Projects</b> Brian Child, Olympus Insurance	<b>Harmonizing Science, Values, and Policy to Develop Direct Potable Reuse (DPR) Regulations</b> Karthik Kumarasamy, CDM Smith	<b>Struvite Reduction via Hydrogen Peroxide and Ferric Chloride</b> Brenda Blake, USP Technologies
<b>TOPIC</b>	<b>OPERATIONS TEST PREP</b>	<b>OPERATIONS</b>	<b>WASTEWATER FACILITIES</b>	<b>PROJECT DELIVERY</b>	<b>WATER RECLAMATION AND REUSE</b>	<b>RESIDUALS AND BIOSOLIDS</b>
4:20 to 5:00 pm	TBD	<b>How CWSID Staff Managed Uninterrupted Treatment During a Full Plant Bypass</b> James Dixon, CWSID	<b>Bacteria in Wastewater Treatment</b> Peter Flowers, Waste Water Innovations LLC	<b>WCDA Contract Templates: We Make it Easy</b> Jeremy McVey, Water Collaborative Delivery Association	<b>Regional Reuse Regulations</b> Jenny Calderon, Water Works Engineers	<b>Arizona's 91st Avenue WWTP Biogas Processing Facility Development and Operation</b> Erin Pflueger, Wilson Engineers





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# TECHNICAL PROGRAM SCHEDULE

**FRIDAY, APRIL 26, 2025**

8:00 to 8:30 am	REGISTRATION/BREAKFAST					
	Entrada A	Entrada B	Entrada C	Sunbrook A	Sunbrook B	Sunbrook C
TOPIC	OPERATIONS TEST PREP	WASTEWATER FACILITIES	SUSTAINABILITY AND RESILIENCY	FUNDING	-	-
8:30 to 9:10 am	TBD	<b>Assessment and Mitigation of RO fouling in MBR-RO Trains Using Flat Plate MBR Membranes</b> Brian Codianne, Kubota Water and Environmental USA	<b>Leveraging a GHG Inventory Analysis to Drive the Climate Strategy of a Growing Water Utility</b> Sarah Ko, CDM Smith	<b>Small, Medium or Large Agency? External Funding: Opportunities, Priorities and Strategies for Success</b> Seema Chavan, Brown and Caldwell		
TOPIC	OPERATIONS TEST PREP	WASTEWATER FACILITIES	SUSTAINABILITY AND RESILIENCY	FUNDING	-	-
9:15 to 9:55 am	TBD	<b>Coupling Anaerobic Digestion with Membraneless Bioelectrochemical Systems</b> Luguang Wang, Utah State University	<b>Water 2050 Sustainability Race: How Can We Select Options for Coating and Lining Water Tanks, Piping, and Treatment Facilities to Reduce Carbon Now</b> Matt Sandlin, Sherwin Williams	<b>Integrating Finance with Your Asset Management Planning</b> Gregory Baird, Black & Veatch		
TOPIC	OPERATIONS TEST PREP	WASTEWATER FACILITIES	SUSTAINABILITY AND RESILIENCY	RESIDUALS AND BIOSOLIDS	NUTRIENT REMOVAL	PROJECT DELIVERY
10:10 to 10:50 am	TBD	<b>Evaluating Full-Scale Impacts of Densified Activated Sludge on Disinfection Efficacy</b> Brian Hiltz, CDM Smith, Inc.	<b>Food Waste Digestion and Renewable Natural Gas: The South Davis Sewer District Experience</b> Matthew Myers, South Davis Sewer District	<b>RotaDry Disc Dryer: Conductive Dryer as the First Step to Sludge Incineration</b> Kristina Pointner, HUBER Technology, Inc.		
TOPIC	OPERATIONS TEST PREP	WASTEWATER FACILITIES	SUSTAINABILITY AND RESILIENCY	STUDENT PRESENTATION	-	-
10:50 to 11:35 am	TBD	<b>Maintenance and Repair Coatings for Key Water/Wastewater Infrastructure Assets</b> Michelle Call, Tnemec - Call Coating Consultants	<b>Advanced Power Generation, Paralleling, and Automatic Transfer Schemes for Enhanced Reliability</b> Adam Wahler, AE2S	TBD		
<b>FINAL RAFFLE</b>						





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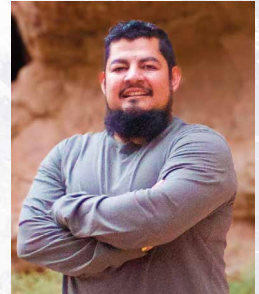
# 2024 Operator and Professional SCHOLARSHIP AWARDEES

The WEAU Scholarship Award is available to members of WEAU and serving in Utah's Wastewater field. A WEAU Board-appointed panel reviews all applications. The scholarship funds are intended for the applicants' education, trade school classes, education books, or student loans. Congratulations to this year's awardees, Mario Campos and Rob Jaterka.

## About Mario Campos

I am Mario Campos and I have been working for Ash Creek SSD since 2018 as an operator. I started taking English courses through BYU Pathway Online two years ago since English is my second language. This helped me start taking the BYU Pathway Online course. Last spring, I passed this course and was accepted to be part of BYU Idaho Online and Ensign College to start my career and obtain my bachelor's degree in business. Through it, I am looking to find new tools to improve and carry out my tasks efficiently, thus improving everything I do. I am grateful to Mike Chandler, who is always encouraging everyone to be able to return and take university courses and was of great help for me to return and start my college degree.

WEAU has helped me with this scholarship, and I will be able to use it to look for tools that will make my life easier during my professional career. I am grateful for this opportunity that has been given to me, and I know that many of you will have this opportunity. If you haven't done so yet, I would like to invite you to apply for the scholarship and take the opportunity that WEAU gives us to continue our professional careers. I know that we do not need to go and get a bachelor's degree, but I can tell you that you will obtain knowledge that can help you improve and make your life easier.



## About Rob Jaterka

My name is Rob Jaterka, and I was lucky enough to receive one of the 2024 operator scholarships. I have been employed in the water/wastewater industry for 25 years now. My career started as a meter reader then into collections and now as the District Inspector. It took a few years for me to realize that I did not want to spend my whole career as an operator, so I enrolled in college. It has been my goal to pay for school without a student loan, so receiving this scholarship has taken a financial burden from me and my family. I am very appreciative that the WEAU offers this to the association members. So, if you are going to school, I would encourage you to apply. [D11](#)





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# WEAU Partners with Free Bikes for Kids at WEFMAX – Park City in 2024

**D**uring the May 2024 Park City WEFMAX, the 70 attendees spent time assembling 11 bikes to be donated to Free Bikes for Kids (FB4K), a non-profit operating in eight states that give away free and refurbished bicycles. WEAU partnered with this local group to leverage WEFMAX in support of local community. Thank you for those who attended and helped!



Three of the bikes assembled by WEFMAX attendees at the FB4K giveaway in early December.

## Hosting or Attending a WEAU Event?



WEAU's Social Media Committee met recently to connect and brainstorm ideas. Pictured (left to right): Tiffini Adams, Tess Laffer, Aimee Matthies, and Missy Willes.

**B**e sure to snap and email any photos to [socialmedia@weau.org](mailto:socialmedia@weau.org) to have a chance to be featured in future digested news articles, LinkedIn posts, and other media platforms. If you post any photos or updates of WEAU events on your personal LinkedIn account, please tag “@WEAU Utah” and #WEAU in your posts. [Dn](#)

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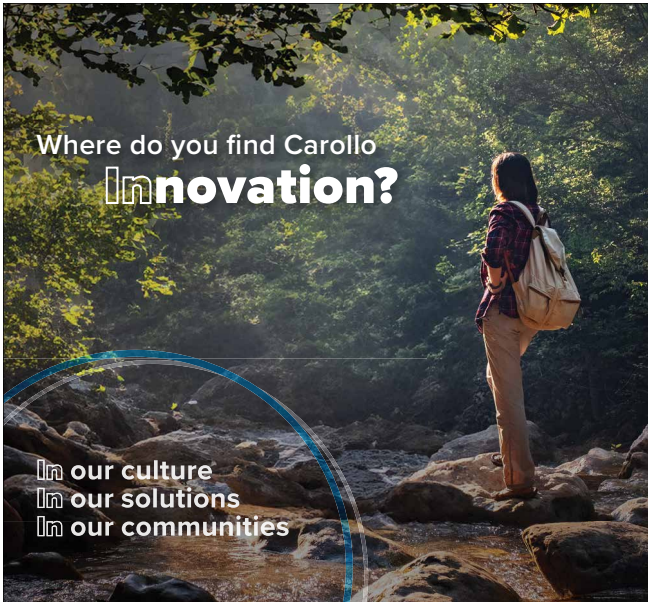
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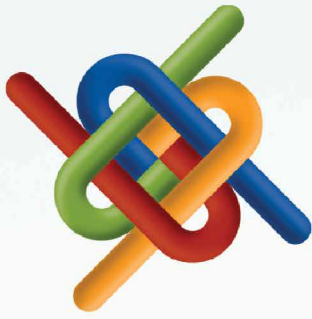
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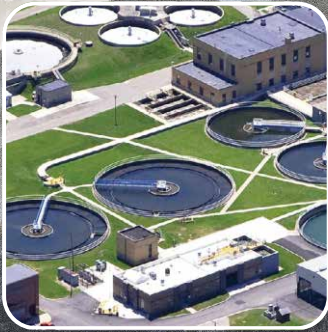
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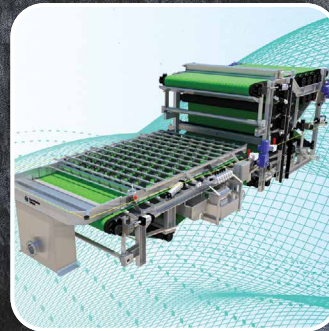
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