

**MWEA
EXECUTIVE COMMITTEE & COMMITTEE CHAIR MEETING
AGENDA**

**Friday, November 3, 2023
9am-12pm
Stoney Creek, Columbia & Zoom**

9:00 AM Call to Order & Confirmation of a Quorum

Approval of the minutes from the August 2023 meeting

Reports from Officers

President, Todd Fulton
President-Elect, Allison Mannion
Vice President, Bently Green
Treasurer, Mike Castner/Tom Inman
Secretary, Eric Farrow

Past President, Amanda Johnson
Past-Past President, Becca Coyle
WEF Delegates, Diane Grossenheider & Jeff Clarke
PWOD Representative, Clara Haenchen

Committee Reports

KNOWLEDGE (Past President – Amanda Johnson)

Stormwater & Watershed Management, Colleen Armstrong & Chris Walter
Small Flows, Jon Shellhorn & Brock Pfost
Biosolids Management, Jeff Barnard & Andrew Hummel
Collection Systems, Verlon Persinger & Deron Huck
Lab Practices, Rodney Spires & Natalie Stahl
Plant Managers, Gary Davis
Industrial Wastewater, Mark Pearson
Plant Operators, Ronnie Box & Kent Peetz
Safety, Security & Occupational Health, Chris Safford
Diversity, Equity and Inclusion Committee, Katie Bruegge & Charles McAllister

DELIVERY (Past-Past President – Becca Coyle)

Local Arrangements, Mickey Bernard
Newsletter, Jennifer Welsch & Nora Estopare
Website, Rob Kuenzel & Saki Urushidani
Registration, Andrew Schranck
Awards, Brent Herring
Program, John Killips & Dave Yates

STAKEHOLDERS (Sr. Delegate – Diane Grossenheider)

Student Activities, Tori Burkdoll & Gary Moore
Young Professionals – Isabella Tibbets & Zachariah Malach
WFP, Jeff Clarke & Diane Grossenheider
Government Affairs – Lacey Hirschvogel & David Carani
Public Relations, Rebecca Howley
Education, Drew Hess
SSSSS, Ben Riles

MANAGEMENT (Jr. Delegate – Jeff Clarke)

Membership, Todd Rasche
Audit, Bob Welsch
Nominating, Amanda Johnson
Tellers, Jeff Finn
Historian, Pam Schweitzer
Association Management, Dalton Turner

Old Business

1. WEF Position Statements <https://www.wef.org/about/Governance/position-statements/>
2. WEF Operators Challenge ad hoc
3. Future JAM Venue RFP Update

New Business

1. Proposed Organizational Structure Change
2. BioBot - National Institute on Drug Abuse
3. Website Discussion - Refresh or Re-Design
4. DEI Article

MWEA EXECUTIVE COMMITTEE QUARTERLY MEETING

AUGUST 19, 2023

Quorum confirmed.

Todd Fulton called the meeting to order at 9:00 a.m.

Alisson M. motioned to approve the previous meeting minutes and Amanda J. seconded. Motion passed.

ATTENDEES:

- *In-person:* _____
- *Virtual:* _____

INTRODUCTIONS

REPORT FROM OFFICERS – Facilitated by Todd Fulton

- President, Todd Fulton
- President-Elect, Allison Mannion - *Proposals due by 8/30, Three received from large hotels in STL and one from Branson/Springfield. Tan Tar A has since reached about 2026 dates. Todd and Bob Parks talked. Jeff C. **Bently motioned to send RFP to Margaritaville, Allison seconded, motion passed.** Deadline will be extended for Margaritaville. Need to establish a RFP review process. Send email to identify two Board members to attend short listed sites.*
- Vice President, Bently Green - *Presented report. Program established for the Fall Technical Conference.*
- Treasurer, Mike Castner - *Presented Treasurer's report. Potential setup separate account for WFP to segregate monies and avoid mixing transactions (i.e. Square/joint events). This would be a 3rd checking account. Todd asked about a minimum balance requirement. Commerce previously accommodated minimum requirements across all MWEA accounts. Joint account balance currently exceed \$250,000 and Mike intends to evaluate long-term investment options (i.e., CD, other). Sam presented a draft Treasurer Reimbursement Request form available online via the MWEA webpage to cut down on Treasurer emails and tracking.*
- Secretary, Eric Farrow - *No report, e-Votes up-to-date on Google Drive. Insurance renewals were approved in June/July and will be published with the meeting minutes.*
- Past-President, Amanda Johnson - *Amanda requested nominations for the Nominating Committee especially the vacancy for Assistant Secretary or Secretary.*
- Past-Past President, Rebecca Coyle - *Becca is looking for a plant tour this Fall for her newsletter article.*
- WEF Delegate, Diane Grossenheider - *Jeff C. presented report.*
- PWOD, Clara Haenchen - *Clara awarded free MA membership and registration at the annual meeting was awarded to an operator from Cape Girardeau. Recent MDNR approval for a plant tour required a classroom portion as obtained by the Biosolids Committee.*

KNOWLEDGE – Facilitated by Amanda Johnson

- Stormwater and Watershed, Colleen Armstrong – *Presented committee report.*
- Small Flows – *Presented report.*
- Biosolids, Andrew - *Presented report.*
- Collection Systems, Verlon Persinger – *Amanda read the report.*

- Lab Practices, Rodney Spires – *Presented report. LPC intends to combine testing by Collection Systems and Lab Practices with WPI and may require increasing subscription.*
- Plant Managers, Gary Davis – *Presented report. Interested in combining with Plant Operators.*
- Industrial Wastewater, Mark Pearson – *No report.*
- Plant Operators, Ronnie Box – *See attached report. Interested in combining committees with Plant Managers.*
- Safety, Security and Occupational Health, Chris Safford – *No report.*
- Diversity, Equity & Inclusion, Katie Bruegge – *Presented report.*

Reports concluded at 10:09 a.m.

DELIVERY – Facilitated by Todd Fulton

- Local Arrangements, Mickey Bernard – *No report.*
- Newsletter, Nora – *Presented report. Requesting Board review of MWEA Current Submission Guidelines. Requested Board discussion of including company logo in newsletter articles.*
- Website, Rob Kuenzel and Saki U. – *Update given by Samantha.*
- Registration, Andrew Schranck – *Report presented by Allison.*
- Awards, Brent Herring – *Report presented by Becca.*
- Programs, John Killips – *No report. Call for papers has been issued.*

Reports concluded at 10:42 a.m.

STAKEHOLDERS – Facilitated by Jeff Clarke

- Student Activities, Tori Burkdoll – *Presented report.*
- Young Professionals, Zach Malach – *No report.*
- WFP, Jeff Clarke – *No report.*
- GAC, David Carani – *No report. (Previous: GAC to assist or champion WEF position statement)*
- Public Relations, Rebecca Howley – *Jeff presented the report.*
- Education, Drew Hess – *No report.*
- SSSSS, Ben Riles – *Presented golden SSSSS shovel to Eric Farrow.*

MANAGEMENT – Facilitated by Jeff Clarke

- Membership, Todd Rasche – *Report presented by Jeff.*
- Audit – *No report.*
- Nominating, Amanda Johnson – *No report.*
- Tellers, Jeff Finn – *No report.*
- Historian, Pam Schweitzer – *No report.*
- Executive Administrator, Dalton - *See report.*

Reports concluded at 10:58 a.m.

OLD BUSINESS

1. WEF Position Statements - *Todd will follow up with GAC.*

NEW BUSINESS

1. Visioning Session

a. References:

<https://www.wef.org/events--education/career-resources/water-leadership-institute/WorkforceChallenges/>

Next meeting is scheduled for Friday, November 2nd, 2023 at the Stoney Creek.

Jeff Clarke motioned to adjourn, and Allison Mannion seconded. Motion carried.

Meeting adjourned at 1:03 p.m.

Underline italics indicates an action item recorded at the meeting.

Bold italics indicates a vote was cast.



Missouri Water Environment Association

PO Box 1572, Jefferson City, MO 65103

573-556-8243 // admin@mwea.org

Vice-President's Report

November 2, 2023

President

Todd Fulton

The Fall Technical Conference program has been completed and was a huge success. There were 148 attendees. Generally, all ran smooth. The wireless connections for presentations were a little problematic and required tech support about half the time, but in all cases we were able to work around it.

President-Elect

Allison Mannion

Vice President

Bently Green

The agenda for the program is on the following page.

Secretary

Eric Farrow

That concludes the Vice-President's report.

Assistant Secretary

Mel Peterein

Bently C. Green

Treasurer

Mike Castner

Assistant Treasurer

Tom Inman

Past President

Amanda Johnson

Past Past President

Becca Coyle

PWOD Representative

Clara Haenchen

Senior WEF Delegate

Cliff Cate

Junior WEF Delegate

Dianne Grossenheider

Executive Administrator

Dalton Turner

MISSOURI WATER ENVIRONMENT ASSOCIATION

Annual Fall Technical Conference

Thursday, November 2, 2023

Stoney Creek Hotel and Conference Center – Columbia, Missouri

AGENDA

7:45 AM - 8:15 AM	Registration (Foyer)	
	Salon A	Salon B
8:15 AM - 9:15 AM	Biosolids Management Plans <i>Katie Bruegge – KimHEC</i>	Lessons Learned from Fast-Tracked Design and Construction of Improvements to a Small Extended Aeration Wastewater Treatment Plant <i>Andrew Schranck and Sandy Bernard – Lochmueller Group; and Tim Southards – American Water</i>
9:15 AM - 10:15 AM	Risk Integrated Project Prioritization (RIPP) for Stormwater Projects <i>Diane Grossenheider and Andrew Smith – Black & Veatch</i>	PACP/MACP/LACP - Version 8 is here! <i>Laura Gray – Lamp Rynearson</i>
10:15 AM - 10:30 AM	Break (Foyer)	
10:30 AM - 11:30 AM	Making Fixed Price Design-Build, Progressive <i>Doug Wachsnicht – Goodwin Brothers</i>	Aeration Control with Iris and Butterfly Valves <i>Thomas Bumgardner – Innovative Engineered Equipment</i>
11:30 AM – 12:30 PM	Lunch (Salon C) – Lunch is included	
12:30 PM - 1:30 PM	Regulatory Update: PFAS, Pretreatment, Biosolids, WOTUS, Phosphorous <i>Jay Hoskins – St. Louis Metropolitan Sewer District</i>	Identifying Tomorrow's Problem Today <i>Christopher White – Redzone Robotics</i>
1:30 PM - 2:30 PM	Smart Sensors <i>Jeremy Roseman – Brown and Caldwell</i>	Mitigating Geysers in Deep Sewer Tunnels <i>John Killips - GHD</i>
2:30 PM - 2:45 PM	Break (Foyer)	
2:45 PM - 3:45 PM	OOOWEE THAT STINKS! Addressing Taste & Odor Issues for Maryville, MO's Drinking Water – A Review of Pilot Test Operation & Results <i>Vito Palmietto - HDR</i>	Nutrient Optimization for Existing Treatment Plants <i>Nicholas Willis – Wichita State University</i>
3:45 PM - 4:45 PM	An intermittent MLE process for enhanced nutrient removal - full-scale implementation <i>Jianmin Wang, Ph.D., P.E.; CTO at Frontier Environmental Technology and Professor at Missouri University of Science and Technology</i>	The Benefits of Composite Manholes <i>Eric Luschen – McIntire Management Group</i>
4:45 PM – 5:00 PM	MDNR Rosters (Registration Table Foyer)	

Presentation Time 8:15

Title: Biosolids Management Plans

Abstract:

Publicly Owned Treatment Works (POTWs) must remove biosolids and sludge according to Federal Regulations (40 CFR 503) and Missouri Clean Water Law (Standard Conditions Part III). This presentation will review those requirements while also discussing how having and updating a Biosolids Management Plan can assist POTW staff in maintaining NPDES permit compliance. Upcoming topics of concern will also be addressed, specifically PFAS in biosolids.

Bio: Katie Bruegge

Katie Bruegge is an Environmental Program Manager at KimHEC. Katie graduated from Bradley University with a BS in Environmental Science in 2012. Before entering the wastewater field, Katie gained field and laboratory experience at a biological field station and an industrial laboratory. Her transition into wastewater started at the City of St. Joseph Water Protection Division where she was ultimately responsible for the Environmental Services Section. At KimHEC, Katie appreciates the opportunity to assist multiple communities in Industrial Pretreatment Program implementation and maintaining compliance. When not at work, Katie is either completing a home improvement project, spending time with family, or enjoying the outdoors.

Title: Lessons Learned from Fast-Tracked Design and Construction of Improvements to a Small Extended Aeration Wastewater Treatment Plant

Abstract: The design and construction of improvements to an 80,000 GPD average design flow extended aeration wastewater treatment plant presented numerous overlapping engineering, project management, and construction challenges which yielded valuable lessons learned. The fast-tracked project timeline—set during winter and a period of unprecedented supply chain uncertainty—was the first project challenge. Second, the constrained site and need to maintain existing plant processes—while reconstructing or reconfiguring the majority of the plant—presented challenges throughout the design and construction phases of the project. Third, the unanticipated impacts of the influent characteristics on the headworks equipment resulted in modifications to the original headworks structure design. The engineering team and the owner effectively navigated the challenges throughout the project and ultimately gained valuable insights about the design and construction processes that can be translated to future projects and shared with other engineering designers, project managers, owners, and operators for enhanced project delivery optimization. Here we present an overview of challenges faced on this project, how they were addressed, and suggested practices for others facing similar design and construction challenges.

Bio: Andrew Schranck (Primary) / Sandy Bernard / Tim Southards

Andrew has nine years of professional experience demonstrating the breadth of his engineering problem solving. He worked for five years in a research laboratory investigating advanced oxidation

processes for wastewater treatment, specifically working on electrochemical processes for source-separated urine treatment to reduce nitrogen loads on centralized wastewater treatment plants. After earning his Ph.D., Andrew worked for one year in management consulting on projects for local government, small businesses, and nonprofit organizations in Northern Indiana. Andrew also has experience working with two small startups—a building automation technology company and a research venture focused on water, sanitation, and hygiene in developing countries—before joining Lochmueller Group. Andrew has been a process engineer with Lochmueller Group since 2021, focusing on various water and wastewater projects across Missouri, Illinois, and Indiana.

Presentation Time 9:15

Title: Risk Integrated Project Prioritization (RIPP) for Stormwater Projects

Abstract:

Stormwater managers often struggle with balancing the diverse flooding, water quality, maintenance, and community demands of their systems. This presentation provides real world examples of Risk Integrated Project Prioritization (RIPP) for making stormwater system improvements to illustrate value-added project implementation. The prioritization tool allows owner's to selectively implement projects that provide "the most bang for the buck" in a sequential order that provides relief to capital and budget constraints, while simultaneously improving the infrastructure level of service for the system.

Bio: Diane Grossenheider and Andrew Smith

Diane is a project manager with Black & Veatch in its St. Louis office and has managing and supporting major projects in the Midwest and beyond; including work on the St. Louis MSD's fluidized bed incinerator project, the Decatur, IL nutrient program, and the Memphis stormwater program.

Andrew is a senior technologist with Black & Veatch and focuses primarily on developing, supporting, and implementing stormwater programs throughout the country.

Title: PACP/MACP/LACP - Version 8 is here!

Abstract: NASSCO has numerous committees where members volunteer time to prepare resources, webinars, videos, and updates to the training materials. The Infrastructure Assessment Committee (IAC) is the largest committee with over 60 volunteers including city/utility employees, engineers, contractors, NASSCO trainers, and suppliers.

PACP/MACP/LACP version 7 was released in 2016. Since that time, code comments and suggested changes have been compiled by NASSCO. In November 2020, IAC formed the Version 8 Task Force, a smaller workgroup to review comments, as well as additional comments from trainers and committee members, to update the training material and track code updates. Version 8 is scheduled for release in late 2023.

This presentation will review notable changes and share examples of some of the workgroups lively discussions that occurred over 2½ years of regular zoom meetings. Updates to the manual will be presented along with additions to the manual, such as pressure pipe and perforated pipe.

The presentation will briefly touch on other work the IA Committee supports such as articles for magazines and the Asset Management Workgroup which Laura has also been part of to prepare text/photos for 3 training videos.

Presenter Bio: Laura Gray

Laura leads the wastewater group at Lamp Rynearson. She has a BS in Civil Engineering from Oklahoma State and a Master of Civil Engineering with an emphasis on environmental coursework from KU. She has over 26 years' experience focused on wastewater infrastructure. Laura has been certified in NASSCO's Pipeline Assessment Certification Program (PACP), MACP (manholes) and LACP (laterals) since 2006 and an active participant in NASSCO Infrastructure Assessment Committee (IAC). Laura has been part of the IAC Version 8 Workgroup since November 2020 working on an update to the three certification programs.

Presentation Time 10:30

Title: Making Fixed Price Design-Build, Progressive

Abstract: This presentation focuses on ways to make a fixed price design build process, progressive by using the \$140M thermal hydrolysis process biosolids project for the Blue River Treatment Plant in Kansas City as an example. Effective communication and early buy-in help pave the way for a project that meets the Owner's overall goals and objectives and is delivered on time and on budget.

Presenter Bio: Doug Wachsnicht

Doug is vice-president of Goodwin Brothers Construction, a St. Louis based regional construction firm in business for over 75 years. Doug has helped manage some of the most challenging wastewater infrastructure improvement projects for many cities and utilities; with multiple projects for the St. Louis Metropolitan Sewer District, as well as a major biosolids improvement project in Kansas City.

Title: Aeration Control with Iris and Butterfly Valves

Abstract:

New plants are focused on the valve that provides aeration control on basins. Existing plants can improve their control and save money on electricity costs by better control of their aeration by retrofitting valves at these control point locations. This is a talk about the costs, benefits, and potential savings that you should look at when reviewing your aeration control. We look at butterfly valves, knife gates, and Iris valves for aeration control.

Bio: Thomas Bumgardner

Tom has a bachelor's and Master's Degree in Engineering from the University of Missouri Rolla. He focused on grades, golf, and being President of the Game Club. He has been an electrician from a young age in his father's company from trash sweeper up to electrician on water and wastewater plants. He worked as an engineer for two consultant firms after college, before moving into the manufacture representative field with H*E Engineered Equipment in the late 90s. He has now worked over 25 years as a manufacture representative focused on valves, actuators, and innovative equipment dealing with water treatment. He has founded, joined, and merged companies over time, and is the Owner and President of Innovative Engineered Equipment for over 5 years now.

Presentation Time 12:30

Title: Regulatory Update: PFAS, Pretreatment, Biosolids, WOTUS, Phosphorous

Abstract: There are a lot of regulatory changes in motion at this time that could have major impacts on wastewater treatment system operations for years to come. This presentation focuses on a number of those that may have significant impact on overall capital budgets and considers how these regulations may be navigated depending individual circumstances.

Bio: Jay Hoskins

Jay is the Assistant Director of Engineering and Manager of St. Louis Metropolitan Sewer District's Department of Environmental Compliance and helps lead the District's regulatory compliance program. Jay's responsibilities include managing environmental regulatory affairs related to MSD's wastewater and stormwater systems, emergency response activities, laboratory, and industrial pretreatment program. Former adjunct instructor at St. Louis University and Missouri University of Science and Technology.

Title: Identifying Tomorrow's Problem Today

Abstract: As artificial intelligence (AI) continues its buzzword trend, a sector with often slow adoption is also seeking to capture the opportunity: wastewater. Within wastewater systems, the approach to maintenance decisions is often based on whether the pipe had failed before or the age of the pipe. They are static, one-variable approaches that often miss the mark and have dire economic and environmental impacts due to unexpected pipe failures. One of the methods system owners use to identify issues is regular visual assessments of these pipelines. How do we use the common datasets obtained through CCTV inspection with an AI model to develop better maintenance programs and predict failures before they happen? The objective of this paper is to train and compare inspections using machine learning algorithms to develop better asset management practices.

Presenter Bio: Christopher White

Chris White is the VP of Data Services with RedZone Robotics with over 12 years of experience in the wastewater conveyance industry. With Mr. White's support, RedZone has successfully aided engineers, municipalities, and other entities in better understanding technologies and data for managing their collection systems. He oversees the transition of software and data to the end-client and provides a hands-on approach to continuing client education. His technical knowledge of RedZone's technologies and interpretation of deliverables is recognized as an asset to RedZone's clients. Mr. White maintains a current NASSCO PACP, MACP, and LACP certification.

Presentation Time 1:30

Title: Smart Sensors

Abstract: The presentation is centered on the use of Smart Sensors in the Metropolitan St. Louis Sewer District's sewer system and how this information was used to improve overall operations and level of service performance for the Owner. The Smart Sensors provide advanced warning of flow and level changes and allow utilities to make adjustments accordingly.

Presenter Bio: Jeremy Roseman

Jeremy is a Project Engineer with Brown and Caldwell in their St. Louis office and has supported numerous wastewater treatment system improvement projects across the country, including the Metropolitan St. Louis Sewer District's fluidized bed incineration project for the Bissell Point and Lemay treatment facilities. Jeremy has a Bachelor of Science focused in Chemical Engineering from Missouri University of Science and Technology.

Title: Mitigating Geysers in Deep Sewer Tunnels

Abstract: Sewage drop shafts function as a powerful air moving devices by creating water-in-air waterfalls that move air like fans or air-in water fluid columns that transport and compress quantities of air when water velocities are greater than the bubble rise velocity. This creates situations where air in unvented tunnels can transfer pressure at the sewer obvert to the surface at shafts that, even when vented can lead to situations where air and water forcefully exits manholes at the surface and damages surrounding infrastructure. This damage can be severe in large wet weather events. One such event was in St. Louis Missouri on August 30, 2021, which caused a precast drainage structure top to separate from the main structure (referred to herein as the Ikea shaft). Another depressurization at Arkansas and McKean caused damage to the pavement near a drop shaft and is generally a nuisance to residents. This paper will discuss the findings of the root-cause analysis of these geysers and options for mitigation.

Presenter Bio: John Killips

Josh is a regional water leader with GHD. John's focus is primarily on municipal water and wastewater design and construction projects. John has designed or managed over \$250M of wet-weather (CSO/SSO) control projects; and led teams which included multiple firms working concurrently with over 80 total team members; and has a very good understanding project and client objectives, following through with the team to get the work done right. John is currently focused on business development in the Midwest, identifying opportunities where GHD can provide added value to current and potential clients. He is also the GHD Service Line leader for Collection Systems, focused on stormwater and wastewater infrastructure "outside the fence"; which involves collaboration with groups across North America, to have a unified approach for projects and pursuits involving work in this discipline.

Presentation Time 2:45

Title: OOWEE THAT STINKS! Addressing Taste & Odor Issues for Maryville, MO's Drinking Water – A Review of Pilot Test Operation & Results

Abstract: Since 2019, the City of Maryville, MO (City), has experienced a significant increase in the magnitude and frequency of Harmful Algal Blooms (HABs) within Mozingo Lake, which serves as their surface water supply and is a popular recreational destination. These HABs have been associated with taste and odor (T&O) events experienced within the City's treatment and distribution system. In 2020, an Alternative Analysis Project was initiated to identify a holistic, comprehensive improvement strategy including near-term and long-term actions to address treatment and source water quality concerns within the watershed, at the treatment facility, and throughout the distribution system.

The near-term recommendations resulting from the Study have, the City mitigating HABs through periodic algaecide treatments in the lake as well as the conversion of an out-of-service clear well to a Granular Activated Carbon (GAC) contactor downstream of the current treatment process to reduce T&O compounds below the human detection threshold.

In parallel with these near-term mitigation efforts, the Alternative Analysis also considered the rehabilitation of the existing facility versus the construction of a new greenfield water treatment plant. Based on the life cycle analysis and the proposed technology, it was decided the City would proceed with a new greenfield WTP.

A pilot-scale study was recently completed to evaluate the performance and feasibility of an ozone and biofiltration treatment process. The pilot study's primary goal was to evaluate the technology's capability to reduce impacts from two common T&O compounds, MIB and geosmin, while maintaining finished water quality.

The pilot plant is comprised of two equipment skids, one for each treatment process. The ozone skid draws ambient air and converts it to ozone gas. Gas is then introduced to the baffled contact chamber via a pumice diffuser, then routed to the BAF skid. BAF operates with four filters in parallel, testing the performance of both spent GAC and virgin GAC media. Multiple sample ports are located throughout the skid to assess water quality changes and inform operational optimization. Both skids have chemical feed systems that are utilized for simulating MIB and geosmin spike events.

This presentation will provide an overview of the analysis and drivers that led to the selection of ozone and BAF as the preferred technology for addressing T&O issues. Additionally, results and lessons learned from the pilot scale testing will be presented.

Presenter Bio: Vito Palmietto

Vito first had a career as a chef before pursuing his bachelor's degree in civil engineering from the University of Missouri – Science and Technology. He leverages the organization and problem-solving skills he gained in kitchens and applies them to his growing career in water and wastewater. Vito spent his entire life immersed in nature, from hunting and fishing trips, to kayaking and camping. From this

came the desire to do his part to protect the environment. Ever eager to expand his breadth of knowledge, he is currently pursuing his master's degree in environmental engineering from the University of Kansas. When Vito is not in the great outdoors or studying, he enjoys working around the house, chipping away at an exponentially growing to-do list

Title: Nutrient Optimization for Existing Treatment Plants

Abstract: This presentation will cover nutrient optimization strategies that can significantly reduce nutrient discharges through operational changes at low cost, often while saving significant amounts of energy. This presentation will focus heavily on the control points operators have in plant operations – specifically mixing, recycle and aeration controls. Case studies of successful biological nutrient removal will be discussed. This presentation (and hopefully at future seminars/conferences) has been coordinated with the MDNR as they begin work on nutrient optimization.

This work for this is part of a national EPA grant.

Presenter Bio: Nicholas Willis

Nick is a licensed Professional Engineer in the State of Kansas. Mr. Willis graduated from the University of Nebraska-Lincoln with a B.S. in Biological Systems Engineering and from the Norwegian University of Life Sciences with an MSc in Agroecology. He has experience in National Pollutant Discharge Elimination System regulation with the Arkansas Department of Environmental Quality, and water conservation and water, wastewater and stormwater utility management with the City of Hays, KS.

He has assisted over 70 wastewater treatment plants in reducing nutrient discharges in the states of Kansas, Nebraska, Missouri, New Hampshire and Michigan. He has performed onsite jar testing for chemical removal of phosphorus at approximately 35 plants in Kansas. Nick has taught principals of asset management and capital improvement planning to water and wastewater professionals in multiple states. He has also taught extensively on nutrient removal at wastewater facilities. He is a member of both the American Water Works Association, where he serves on the Kansas Operator Training Committee and the Water Environment Federation.

Presentation Time 3:45

Title: MLE process for enhanced nutrient removal - full-scale implementation

Abstract: Wastewater treatment plants are one of the three major sources of nitrogen and phosphorus that cause harmful algal blooms. Therefore, implementation of enhanced nutrient removal process will soon be required for all wastewater treatment plants, and large scale treatment plant upgrades are coming. Unfortunately, technologies on market require additional space, new infrastructure, chemicals, and more energy, which makes wastewater treatment much more expensive.

This presentation introduces an intermittently aerated Modified Ludzack-Ettinger (MLE) process, or iMLE process, to achieve enhanced nutrient removal, without using additional space and chemicals, and also reduces aeration requirement by 20 - 30%. This process has been implemented in a full scale wastewater treatment plant that has a low influent carbon:nitrogen ratio, with an effluent TN of less than 8 mg/L and TP of less than 1 mg/L. Another Frontier technology for small flow wastewater treatment, baffled bioreactor (BBR), will also be introduced.!

Presenter Bio: Jianmin Wang, Ph.D., P.E

Dr. Wang moved to Rolla as an assistant professor from another academic job in 2003, and co-funded Frontier Environmental Technology in 2009. At the company setting, he developed baffled bioreactor (BBR) technology for small flow wastewater treatment, an iMLE process for enhanced nutrient removal that can be applied to both small flow and large centralized treatment plants, and a self-mixing anaerobic digester for organic waste digestion.

Title: The Benefits of Composite Manholes

Abstract: In this presentation I will explain the benefits of using composite manholes vs cast iron manholes. A few benefits are some composite bolt downs are watertight which helps reduce SSOs and CSOs. They are corrosion proof and excel in highly corrosive sewer environments. They are lightweight and reduce injuries workers backs, fingers and toes which in turn reduce workers comp cases. They have no scrap value where areas of theft are common.

Bio: Eric Luschen

Eric Luschen has spent 9 years in the water/wastewater industry working for McIntire Management Group. Starting from the bottom up, he would travel the Midwest/Midsouth assisting our outside territory reps with inground product demos such as chimney seals for manholes and culverts to FRP point repairs on gravity sewer lines. After about 3 to 4 years of doing that, he took over as the Missouri and Southern Illinois outside territory representative for MMG and have been in that position since. His ultimate goal is to help clients find solutions to help improve their water and wastewater system.



Missouri Water Environment Association
PO Box 1572, Jefferson City, MO 65103
573-556-8243 // admin@mwea.org

November 2, 2023

Treasurer's Report

Account Balances **as of 11/1/2023:**

MWEA Checking – **\$260,024.87**

MWEA CD – \$60,616.57

Vanguard Scholarship – \$141,469.83 (as of quarterly statement end 09/30/2023)

TOTAL MWEA Funds: \$462,111.27

President
Todd Fulton

President-Elect
Allison Mannion

Vice President
Bently Green

Secretary
Eric Farrow

Assistant Secretary
Mel Peterein

Treasurer
Mike Castner

Assistant Treasurer
Tom Inman

Past President
Amanda Johnson

Past Past President
Becca Coyle

PWOD Representative
Clara Haenchen

Senior WEF Delegate
Cliff Cate

Junior WEF Delegate
Dianne Grossenheider

Executive Administrator
Dalton Turner

Joint Account – **\$85,936.48**

Surplus Dollars:

With the deposit of this year's disbursement, we will have over 250k in our checking account. I would like to explore options to move additional funds to long-term investment accounts. Ideally in a place that is easily accessible with revolving door of executive committee members. I've started reaching out to investment managers to gauge interest. I am meeting with the individual who handles this for AWWA next week. If anyone has someone that may be interested in this please send me an email.

Reimbursement:

Form is working great, thanks Sam and Saki!

If anyone hasn't received a reimbursement for something that was submitted, please don't hesitate to reach out to Tom or Mike to follow up. There's a lot of emails from the mwea website with fall tech registrations.

Budget vs Actuals (YTD)

Please reference the chart on the next page.

Mike Castner - Treasurer - mcastner@hydro-kinetics.com or treasurer@mwea.org
Tom Inman - Assistant Treasurer - tinman@munequip.com

Description	Budget		Net	ACTUAL YTD		Net
	Revenue	Expense		Revenue	Expense	
Executive Administration						
Insurance		\$1,500	(\$1,500)		\$897.00	\$603.00
Annual Joint Conf (JAM)	\$45,000	\$ -	\$45,000	\$68,000.00		\$23,000.00
WEF Membership Rebates	\$23,500		\$23,500	\$23,505.72		\$5.72
Accounting (AKA Treasurer Expenses)		\$4,700	(\$4,700)		\$4,502.50	\$197.50
Tax Preparation		\$1,600				\$0.00
2 (1500 each) Student Scholarships	\$3,000	\$3,000	\$ -		\$1,500.00	\$1,500.00
Fall Technical Conference	\$10,000	\$9,000	\$1,000	\$9,360.00	\$9,000.00	(\$640.00)
Paid Staff		\$27,000	(\$27,000)		\$22,365.55	\$4,634.45
WEFMAX 5,000 (2 delegates and 3 others), 2 WEFTEC (Delegates 2K each), WEF Official (1k Each)		\$12,000	(\$12,000)		\$6,780.23	\$5,219.77
Misc. Expenses-This includes printing, mailing, phone, meals at meetings, Chair gifts, Survey Monkey, etc.		\$13,000	(\$13,000)	\$19,075.01	\$29,388.73	\$2,686.28
Committee						
Awards		\$2,500	(\$2,500)		\$1,314.75	\$1,185.25
Biosolids Management	\$1,500	\$1,500	\$0.00			\$0.00
Collection Systems	\$5,000	\$2,000	\$3,000	\$2,140.00	\$1,257.07	(\$2,117.07)
Diversity, Equity, and Inclusion		\$500	(\$500)		\$270.00	\$230.00
Education/SJWP		\$1,000	(\$1,000)		\$897.48	\$102.52
Government Affairs		\$2,000	(\$2,000)			\$2,000.00
Industrial Wastewater		\$200	(\$200)			\$200.00
Lab Practice	\$900	\$500	\$400	\$2,205.00	\$1,455.08	\$349.92
Newsletter	\$2,000		\$2,000	\$3,668.00		\$1,668.00
Small Flows	\$1,000	\$1,000	\$0.00			\$0.00
SSSSS		\$700	(\$700)		\$772.57	(\$72.57)
Stormwater & Watershed		\$1,000	(\$1,000)			\$1,000.00
Student Activities		\$2,000	(\$2,000)		\$652.95	\$1,347.05
Water For People		\$1,500	(\$1,500)			\$1,500.00
Website		\$1,375	(\$1,375)		\$1,375.00	\$0.00
Young Professional		\$2,000	(\$2,000)			\$2,000.00
YP Summit (2)		\$3,400	(\$3,400)		\$1,995.29	\$1,404.71
TOTALS	\$91,900	\$94,975	(\$3,075)	\$127,953.73	\$84,424.20	\$46,604.53



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MWEA DELEGATE REPORT 11-03-2023

President General:
Todd Fulton

President-Elect New Speaker of the House: Alexie Kindrick -Oklahoma
Allison Mannion New Speaker-Elect: Bill Davis – South Carolina

Vice President New committees:
Bently Green

Secretary Communication
Eric Farrow Advocacy

New Workgroups – some are a year, six months, and three months.

- Assistant Secretary *Mel Peterein*
 - HOD of the Future: Delegates-at-Large Work Group: Co-Chairs Scott Foley and Kam Law
 - Deliverables: Recommendations as to duties, selection, support, communication, etc.
 - Strategic Plan Workgroup – Jeff Clarke is a member
 - Current Status is collecting MA’s strategic plans
 - Mission, Vision and Value sub workgroups
 - Focus on aligning HOD with both the federation and MA’s strategic plan
 - WEFMAX scouring for information from MA’s
 - HOD of the Future: Emerging Leaders
 - HOD New Members Onboarding, Orientations
 - MA New Delegate Selection Best Practices
 - Workforce Development

PWOD Representative
Clara Haenchen

Senior WEF Delegate *Cliff Cate* Diane is serving as the Co-chair along side Mike Welke on the HOD new Members Onboarding Orientations if it matters. We are kicking it off this week.

Junior WEF Delegate *Dianne Grossenheider* Jeff Clarke attended his first HOD meeting at WEFTEC.

Executive Administrator
Dalton Turner

Respectfully submitted

Jeff Clarke

Diane Grossenheider

Scott Foley



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PWOD Report:

1- Will look to continue free Operator membership for 2024, will see if needs updated

2-Workshops this fall- Lab, Biosolids in house training, Fall Tech, Collections. Jan 31st cutoff till after annual meeting- do we want to continue with cutoff?

3- JAM- submit to MDNR in December before Holidays works best, otherwise wait till first week January at latest

4- JAM- end of my term, any consideration to training with MDNR process for who does what with submittals for approvals besides PWOD. Provided nominee to board for ballot.

Thanks,
Clara

President
Todd Fulton

President-Elect
Allison Mannion

Vice President
Bently Green

Secretary
Eric Farrow

Assistant Secretary
Mel Peterein

Treasurer
Mike Castner

Assistant Treasurer
Tom Inman

Past President
Amanda Johnson

Past Past President
Becca Coyle

PWOD Representative
Clara Haenchen

Senior WEF Delegate
Cliff Cate

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The Stormwater and Watershed Management Committee held their past meeting on September 21, 2023. We hosted a special speaker, Sarah Wright, who spoke about how Census data has influenced MS4 permits. There were 14 attendees present at this meeting.

The committee is planning on holding its next meeting on January 18th, 2024.

President
Todd Fulton

President-Elect
Allison Mannion

Vice President
Bently Green

Secretary
Eric Farrow

Assistant Secretary
Mel Peterein

Treasurer
Mike Castner

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Tom Inman

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Collection System Committee
Verlon W Persinger, Chair 2022-24

President Re: Quarterly Report
Todd Fulton November 3, 2023

President-Elect The Collection System Committee has held one (1) meeting
Allison Mannion since the last report. The October 4, 2023 meeting was held
at the Columbia Missouri Wastewater Treatment Plant with
Vice President a virtual attendance option. Attendance was 6 members. At
Bently Green the October meeting, the Committee voted to move forward
with obtaining the testing material in the paper format from
Secretary WPI under the MWEA umbrella in line with efforts of the
Eric Farrow MWEA Lab Committee. The new WPI testing will be
instituted after the upcoming JAM Conference with the last
Assistant Secretary testing under the current testing format will occur during
Mel Peterein the Collection System Committee meeting at the JAM
Conference.

Treasurer
Mike Castner

The Committee is continuing to offer our Outreach Programs
throughout the State of Missouri. Joel Ogle has scheduled
Assistant Treasurer the next upcoming program on December 12, 2023, at the
Tom Inman Cameron, Missouri Fire Department. The Committee will be
offering the next testing opportunity the following morning
Past President at the Cameron Fire Department.
Amanda Johnson

Past Past President The Committee is actively accepting nominations for the
Becca Coyle Golden Manhole Society Awards and Charles Raab
Collection System Award. Nominations may be forwarded to
PWOD Representative Todd Rasche or myself.
Clara Haenchen

The next meeting of the CSC will be 10:00 am on December
Senior WEF Delegate 6, 2023, at the Columbia Wastewater Treatment Facility.
Cliff Cate The Committee currently meets every other month during
the year.

Junior WEF Delegate
Dianne Grossenheider

Executive Administrator
Dalton Turner



President
Todd Fulton

President-Elect
Allison Mannion

Vice President
Bently Green

Secretary
Eric Farrow

Assistant Secretary
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Laboratory Practices Committee Report to Executive Committee

November 3, 2023

- I (Jacob Schwoerer) relieved Rodney Spires of the LPC Chair during the last board meeting on August 18, 2023.
- There is currently 63 LPC members – an increase of 10 from last board meeting.
- We held the LPC Fall Laboratory Workshop on September 15 at MPUA in Columbia. The facility was used at no cost. There were 68 attendees. There was 9 presenters and the training offered 8-hours of WW CEU's. Registration was \$30 for members and \$60 for non-members. Lunch was provided at a cost of \$1455.08. Overall, the workshop ended up 'unofficially' \$1874.92 ahead.
- The LPC 4th quarter meeting is scheduled for December 8, 2023 at Jefferson City Wastewater Facility.

Submitted by:

Jacob Schwoerer, LPC Chair



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INDUSTRIAL WASTE COMMITTEE REPORT

October 31, 2023

President
Todd Fulton

Mark Pearson, Chair

President-Elect
Allison Mannion

The Industrial Waste Committee work will commence its work in December in preparation for the season of the year where pretreatment coordinators compile data for 2023 for nominations.

Vice President
Bently Green

Tim Canter of Jacobs has consented to be co-chair. He will start taking on the responsibility of communicating with the pretreatment coordinators for the 2023 award season.

Secretary
Eric Farrow

Tim has requested that the JAM committee consider scheduling any papers associated with industrial topics to be presented on the day of the awards banquet as an incentive for industrial pretreatment award recipients to attend the full day of the conference.

Assistant Secretary
Mel Peterein

Treasurer
Mike Castner

Assistant Treasurer
Tom Inman

Past President
Amanda Johnson

Past Past President
Becca Coyle

PWOD Representative
Clara Haenchen

Senior WEF Delegate
Cliff Cate

Junior WEF Delegate
Dianne Grossenheider

Executive Administrator
Dalton Turner





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OPERATOR COMMITTEE REPORT

November 1, 2023

President
Todd Fulton

There has been no official activity in the Plant Operators Committee to report.

President-Elect
Allison Mannion

Co-Chair Kent Peetz travelled to WEF Tech to observe, among many things, the Operator Challenge. It was exciting watching teams of water and wastewater operators from all over the world compete in the many challenges presented to them.

Vice President
Bently Green

Secretary
Eric Farrow

Hopefully we can find some equipment and materials suppliers interested in supporting some very simple challenges that we could set up at the Spring JAM to introduce Missouri operators to the idea of the Operator Challenge and build some interest in forming teams in the future. If we can start small for the first year and build on that it would be great. I understand that there may be some control panel demo units that could be used for simple troubleshooting, or component replacements. Other ideas are pumps that could be disassembled and reassembled for time, but again, we need sponsors willing to donate equipment for such ventures.

Assistant Secretary
Mel Peterein

Treasurer
Mike Castner

Assistant Treasurer
Tom Inman

Past President
Amanda Johnson

It would be great if we could get a big screen TV to have videos of the WEF Tech Operator Challenge running in loops where we have our challenges set up.

Past Past President
Becca Coyle

All ideas are welcome for simple challenges that can be repeated over and over by anyone that wants to challenge themselves.

PWOD Representative
Clara Haenchen

Senior WEF Delegate
Cliff Cate

Junior WEF Delegate
Dianne Grossenheider

Executive Administrator
Dalton Turner



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DEI Committee Report

President
Todd Fulton

President-Elect
Allison Mannion

Vice President
Bently Green

Secretary
Eric Farrow

Assistant Secretary
Mel Peterein

Treasurer
Mike Castner

Assistant Treasurer
Tom Inman

Past President
Amanda Johnson

Past Past President
Becca Coyle

PWOD Representative
Clara Haenchen

Senior WEF Delegate
Cliff Cate

Junior WEF Delegate
Dianne Grossenheider

Executive Administrator
Dalton Turner

1. Our committee cohosted a DEI Happy Hour in St. Louis with APWA and MO-AWWA
 - a. Will put a recap in the Current
2. This Saturday (November 4) is the Missouri Environmental Education Association Annual Conference
 - a. Sam, Renee, Katie attending to represent MWEA and provide information to MO teachers about water, wastewater, and stormwater
3. Dalton helped us have a presence at Fall Tech, bringing our pronoun posters to have at the registration table
4. Our committee is starting to plan for the upcoming JAM:
 - a. Continuing with Conference Orientation Sessions
 - b. Paint and Sip
 - c. DEI Panel/Track
 - d. Coordination with Program and Local Arrangements
5. Questions from the Committee:
 - a. Would the Board consider offering a reduced rate for retirees to attend JAM?
 - b. InFLOW Program/Student sponsorship

Respectfully submitted,

Katie Bruegge, Committee Chair





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MWEA Newsletter Committee

November 3, 2023

The Winter 2023 issue of MWEA's Current is accepting content contributions until November 10, 2023. Here is how the submissions are shaping up:

President
Todd Fulton

President-Elect
Allison Mannion

Vice President
Bently Green

Secretary
Eric Farrow

Assistant Secretary
Mel Peterein

Treasurer
Mike Castner

Assistant Treasurer
Tom Inman

Past President
Amanda Johnson

Past Past President
Becca Coyle

PWOD Representative
Clara Haenchen

Senior WEF Delegate
Cliff Cate

Junior WEF Delegate
Dianne Grossenheider

Executive Administrator
Dalton Turner

Submitted

Article on MoDNR Computer Exams for Operator Certification
by Darlene Helmig

Article on MSD Project Clear Reaching 85% of SSO Elimination Goal
By Bess McCoy

Cybersecurity Awareness Month information from EPA website
Water and Wastewater Professionals Week Declaration

Expected

President Message from VP - (Bently)

Fall Tech Recap - (Bently)

DEI Happy Hour Recap - (Katie)

Pending Board Approval

DEI Committee Topic by Megan Wiskur

Application Form

It is my understanding the Ronald F. Layton Student Scholarship application form should be included in this issue. Who can I reach out to regarding the contact and date updates?

The schedule for the Spring 2024 JAM Conference Editions has yet to be finalized, but the anticipated Advertising/Editorial deadline is January 12th for submission to our publisher. Please submit articles drafts to Dalton by January 2, 2024.

Unfortunately, I have decided to resign from the Newsletter Committee. Please reach out to Dalton if you are interest in helping with future issues of the Current.



Missouri Section AWWA Committee Report Form

Date:

Committee Name:

Committee Chair / Representative:

Committee Report - Please provide brief notes on recent activity, updates, future events.

Is your committee seeking board approval for anything? Yes No

If you responded yes, please provide a description of the action for which you're seeking board approval.

Does your committee desire to make a presentation to the Board before the request above is considered? Yes No

Submit this form via email to maryodom@awwa-mo.org.



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5S report.

I will be sending a group email to all 5S members soon, seeking nominations for potential new 5S members.

President
Todd Fulton

President-Elect Ben Riles
Allison Mannion

Wastewater Treatment Plant Superintendent

Vice President Bently Green
City of Columbia

Phone: 573-441-5538

Secretary Eric Farrow
Mobile: 660-998-2603

Assistant Secretary Mel Peterein
ben.riles@como.gov
como.gov

Treasurer
Mike Castner

Assistant Treasurer
Tom Inman

Past President
Amanda Johnson

Past Past President
Becca Coyle

PWOD Representative
Clara Haenchen

Senior WEF Delegate
Cliff Cate

Junior WEF Delegate
Dianne Grossenheider

Executive Administrator
Dalton Turner



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MISSOURI WATER ENVIRONMENT ASSOCIATION

Member of the
Water Environment Federation

2022-2023 MWEA OFFICERS

President
Amanda Johnson
Black & Veatch
8400 Ward Parkway
Kansas City, MO 64114
913-458-3553

President – Elect
Todd Fulton
City of Cape Girardeau
2007 Southern Expy.
Cape Girardeau, MO
63703
573-339-6641

Vice President
Allison Mannion
Lochmueller Group
7306 Dorset Ave
Saint Louis, MO 63130
636-489-9852

Secretary
Eric Farrow
HDR
10450 Holmes Road,
Ste 600
Kansas City, MO 64131
816-347-1105

Treasurer
Samantha Weidenbenner
Woodard & Curran
5587 Westerfield Pwky.
Weldon Spring, MO
63304
636-233-8062

PWOD
Clara Haenchen
City of Jefferson
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Jefferson City, MO
65101
573-634-6502
Delegate
Cliff Cate
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114
816-823-7128

Delegate
Diane Grossenheider
Black & Veatch
16305 Swingley Ridge
Road, Ste 230
Chesterfield, MO 63017
636-536-5878

Membership Committee Report Thru October 31, 2023 Submitted by: Todd Rasche

We currently have 806 members; the chart below shows the breakdown of the memberships as of 10/29/2023. There will be approximately 158 members that will need to renew their membership by 12/31/2023. I am planning to send an email to all MWEA members letting them know their membership is about to expire as a reminder.

Our group has had some phone and email discussions since my last report. I have added details regarding the Veterans initiative that Mike Morris would like to discuss with the board.

Mike's Report for the MWEA Veterans Group

The goal for developing a Veterans Group within MWEA is as follows:

1. Recognize veterans throughout the state who work in the W/WW industry.
 - a. Increase awareness and honor veterans working within the industry:
 - i. Operators
 - ii. Consultants
 - iii. Suppliers
 - iv. Contractors
2. Generate a resource to raise awareness of employment and internship opportunities found throughout each Municipalities statewide.
 - a. Municipal Job Postings.
 - i. Engineers
 - ii. Computer Programmers (more geared toward process controls)
 - iii. Water and Wastewater Experience
 - iv. Generator Specialist
 - v. Calibration and Instrumentation
 - vi. Skilled Electricians
 - vii. Skilled Mechanics
 - viii. Skilled Mechanical and Plumbing
 - ix. Operators of Heavy Equipment
 - x. Truck Drivers
 - xi. Office Staff/Clerical (Invoicing/Accounting/Staffing/Etc.)
 - xii. Police
 - xiii. Fire and EMT(P)
 - xiv. Technical Sales
 - xv. Last but not least - Laborers who have the aptitude to learn!



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- b. Internship opportunities for opportunities:
 - i. Engineering – Universities and Colleges
 - ii. Electricians – Trade Schools
 - iii. Mechanics – Trade Schools
 - iv. Plumbers – Trade Schools
 - v. Operators – Trade Schools

3. Create a networking group to achieve the following:
 - a. Word of mouth resource for recruiting talent for open positions throughout the industry.
 - b. Develop program with all branches to list job postings through each base for military members who are planning to enter the civilian workforce.
 - c. Tap into Veteran organizations throughout the state to increase awareness for Water related programs and services offered to communities.
 - d. Allow a means for communications to share experience and develop relationships.
 - e. Mentorship program to develop our next generation leaders in the industry and teach them the skills necessary to succeed from those still in the industry.

4. Other organizations to reach out to for coordination of efforts.
 - a. Missouri Rural Water and Wastewater
 - b. Local organizations
 - i. VFW
 - ii. AM-Vets
 - iii. American Legion Halls
 - iv. Elks
 - v. Etc.
 - c. Community Colleges
 - d. Police Departments who work with Veterans
 - e. Veteran rehabilitation groups
 - f. Other Veteran organizations throughout the state
 - g. Military bases within the state (transition career teams)

5. Seek support from organizations already within MWEA and MO-AWWA
 - a. Engineering Firms
 - b. Equipment Suppliers
 - c. Municipalities
 - d. Contractors

6. Resources to develop:
 - a. Job Posting Website
 - b. Membership posting on MWEA/MO-AWWA Websites

Visit our website at www.MWEA.org



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- c. Newsletters
- d. Webinars – training/certification/videos on different positions
- e. Events to honor Veterans.
- f. Participation in National AWWA & WEF Events
- g. Recruit new members to be representative around the state.
- h. Descriptions for each job opportunity with salary ranges.
- i. Referral program – who to call for directions/information.

The overall goal is to provide an opportunity for potential employees to have a better understanding of what is available and how to reach out to apply for a position. Our current operators and management staffs are reaching retirement age and we need to be able to pass along the knowledge for the future. The current generation is overlooking our industry. Its our job to show them the path and pass along the knowledge. How can we assist? Join us today to grow an awareness for productive jobs, resulting in clean water for our future!

Below are a couple items Mike would like to get some feedback on.

1. Marketing Logo Development
 - a. Who determines the criteria for development?
 - b. Are there any resources available for development that I can tap into?
2. Potential locations marketing material would be utilized.
 - a. Flyers for advertisement throughout the state at Veteran Group Halls
 - b. PowerPoint Presentations
 - c. Posters/Boards for JAM
 - d. Newsletter
3. Sponsorship solicitation (possible joint sponsorship program with YP, MAC, etc.)
 - a. Meet & Greet events.
 - b. Cost associated during annual show(s).
 - c. Special Events for appreciation and recruitment held throughout state.
 - d. Possibility of awards for years of service.
4. Generation of a questionnaire
 - a. Seeking current Veterans and honoring them.
 - b. Creating a map of municipalities who have Veteran Employees.
 - c. Solicitation of membership to Veteran committee.
 - d. Advertisement of job openings.



MISSOURI WATER ENVIRONMENT ASSOCIATION

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Matts report-

MWEA Membership – Young Professionals and New to the Industry Candidates

I believe an MWEA social media campaign, managed by a young professional adept at these platforms, would deliver the membership marketing the organization needs to attract new young members entering the industry. Social media is evolving every day and keeping up with the various platforms, lingo, and ways to reach people can be impossible for someone unfamiliar to manage effectively. I propose MWEA get a young Social Media ambassador, working on their PE or environmental degree, to create social media posts for MWEA that are targeted and professional. I believe a social media campaign with a post once a week, copied to a few platforms, would reach an audience we need to focus on. Further, these posts can be copied by other MWEA members to share in various ways such as LinkedIn, membership emails, and other organization communications. I was involved in a similar campaign that reached nearly 20,000 professionals with making a single post once a week.

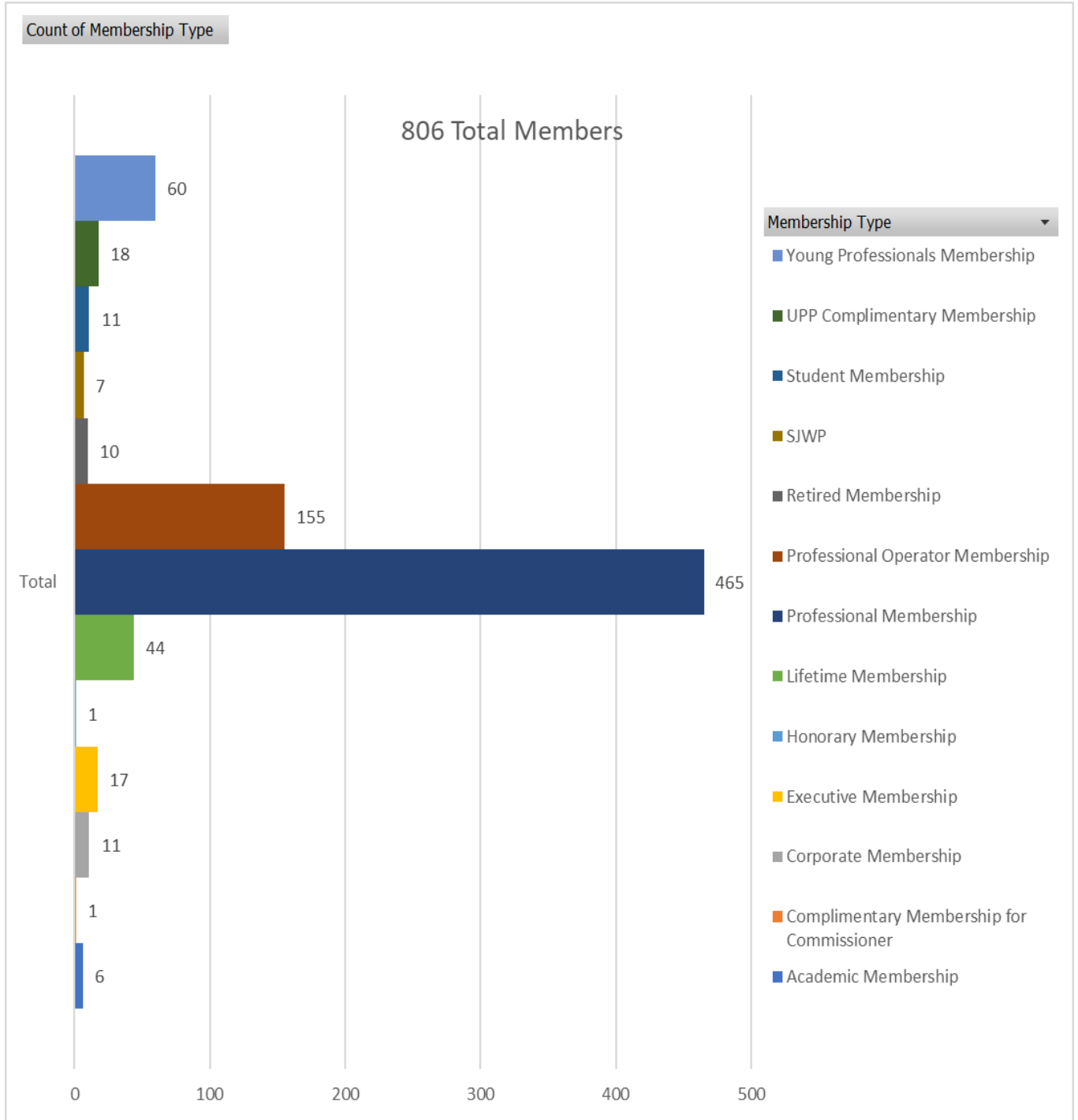
MWEA membership would benefit from targeting young professionals, recent college graduates, and new engineers/operators. The more MWEA can get the younger generation involved in the organization, the more natural growth our membership will see over the long term. Based on this, we need to focus MWEA's marketing to that group and find a couple of young "champions" to drive this for us. However, for someone to truly dedicate their time and commit to being affective at this, we need to incentivize them with something like an internship, scholarship, letter of recommendation, a scholarship, etc..



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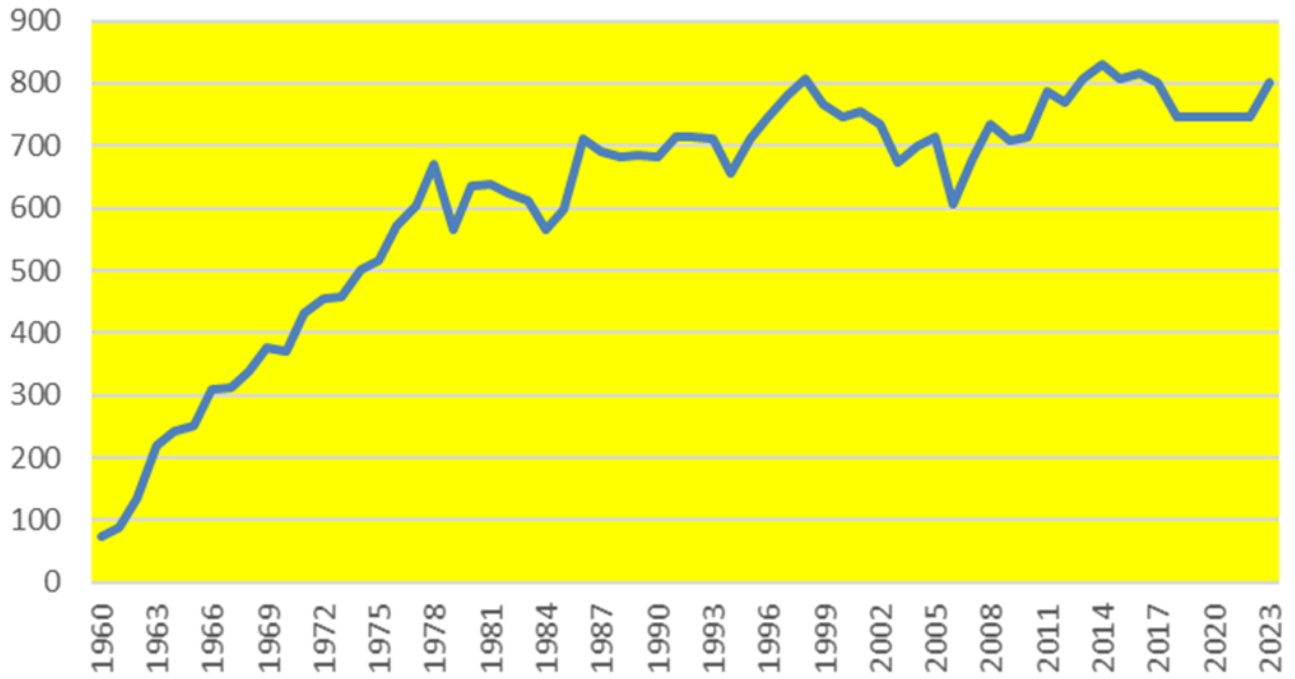


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MWEA Membership History



20 year MWEA Membership Trends

