



Pennsylvania AWWA

American Water Works Association

4<sup>TH</sup>

ANNUAL  
PA-AWWA  
CONFERENCE

# *Welcome to the* *74<sup>th</sup> Annual* **PA-AWWA** **CONFERENCE**

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### PA-AWWA Executive Director

Don Hershey  
717-774-8870 [donhershey@paawwa.org](mailto:donhershey@paawwa.org)



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Design/layout: Kellee Breckman  
Marketing Manager: Dave Gill  
Advertising Co-ordinator: Stefanie Hagidiakow

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Jim DeWolfe  
Chair

# Back Together!

**W**ater Friends,  
Here we go! This year's Annual Conference is back in-person, right here in my town – State College! It's a great town, and we are going to have a great program and events! Being together in person will be a welcome change. We will have a chance to truly engage in a way that is so valuable and important to beginning and sustaining our water relationships.

We have a lot of catching up to do after having been on virtual platforms for the last couple of years. While we had a successful, first-ever Virtual Conference last year, who doesn't like to be face to face and shake hands with a colleague and a friend? And after two years of seemingly endless challenges, we have reasons to be hopeful. The *Infrastructure Investment and Jobs Act* has recently passed with the promise

“

We have a lot of catching up to do after having been on virtual platforms for the last couple of years. While we had a successful, first-ever Virtual Conference last year, who doesn't like to be face to face and shake hands with a colleague and a friend?

”

of benefits to the drinking water industry and ultimately to the people that consume water from their faucets every day and almost everyone you speak with in our industry says they have never been busier.

My work has taken me all over the United States and internationally. I have participated on numerous AWWA committees, and presented at a lot of conferences. I still remember Prof. Dave Long handing out AWWA

membership forms while I was an undergrad at Penn State. I wasn't sure at the time of all the benefits that came with membership. The richness of my career has been in large part due to being a participating member of AWWA – the world's premier drinking water organization. But the best part of my career has been the people I've met – co-workers, clients, regulators, vendors, and manufacturers. This has not just been a job – it's been a life experience.

It has been my privilege to serve as your Chair. I would like to thank all of you for your incredible support. It has been a great ride, but I'm not done yet! I'm looking forward to the role of Past Chair, and supporting Tim Trout and Zach Martin as they enter their new roles. We need to hear from YOU – the members of PA-AWWA. Let us know how we can help you achieve all the benefits that come with AWWA membership. It's more than paying dues and getting publications. Join a committee, represent your district. Let us help you find a way to fulfill your passion for our industry!

All the best for a great conference! 🍷

Jim DeWolfe, PE, BCEE, CWO  
Chair PA-AWWA  
[jdewolfe@hazenandsawyer.com](mailto:jdewolfe@hazenandsawyer.com)

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**Pennsylvania AWWA**  
American Water Works Association

# CONFERENCE HIGHLIGHTS

## Monday – April 25, 2022

- Annual Golf Outing at Wyndham Garden – Mountain View Country Club – Boalsburg, PA
- Section Meet and Greet at The Senate Suites – Penn Stater

## Tuesday – April 26, 2022

- Full day of Operator Sessions
- Business Luncheon and Award Presentations
- Exhibit hall Raffles and Water For People Auction
- DBIA-Sponsored Tour of Penn State University Wastewater Treatment Plant
- Partnership for Safe Water Social Mixer
- Young Professional's Poster Contest
- Tank Building Contest/Hydrant Hysteria Contest and Water Taste Test Contest
- Exhibit Hall Social Event
- DBIA Social Event at Champs Sports Bar – North Atherton

## Wednesday – April 27, 2022

- Exhibit hall breakfast/prayer breakfast
- Full day of Technical & DBIA Sessions
- Exhibit Hall Luncheon & Raffles
- Water For People Silent Auction

## Hotel Information

Penn Stater Hotel, State College, PA  
215 Innovation Blvd.  
State College, PA 16803

**Reservations:** 814-863-5000

**Use Code:** AWWA22A

**Cost:** \$132 per night (taxes not included)

**Deadline:** March 25, 2022

**Check in:** 4 p.m.

**Check out:** 11 a.m.

*Free parking available at the hotel.*



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# Getting Back to Business!

**W**E ARE BACK! It has been a long two years since our last in-person PA-AWWA Conference. We have all had to adapt many aspects of our business, including how we provide education to our utility members and collaborate with fellow industry professionals. While the virtual conferences were a necessary plan B, there is no substitute for our traditional conference!

That said, our 74th Annual Conference will kick off with our golf outing at Mountain View Golf Club in Boalsburg on Monday with a 10 a.m. shotgun start, followed by a meet and greet at Penn Stater at 6 p.m.

Tuesday's keynote speaker, Steve Jones, serves as the play-by-play voice for Penn State football and men's basketball, and the State College Spikes. He also teaches sports broadcasting in the John Curley Center for Sports Journalism.

The day is packed with Design Build Institute of America (DBIA) and Operators technical sessions, which offer PDH and CEU opportunities, along with a 3-credit valve workshop. Take advantage of a DBIA-sponsored tour of the Penn State University Wastewater Treatment Plant,

and visit with vendors from industry-leading companies to learn about new products and innovative solutions. Tuesday culminates with our Exhibit Hall Networking Event, where you can enjoy appetizers, beer and wine with colleagues and industry professionals.

Participate in the (Vendor Drawing) Monopoly Game and the Water For People Silent Auction and get a great deal for a great cause! Watch our Celebrity Panel of judges as they determine PA's best-tasting water, with the winner moving on to compete at ACE22. Cheer on Brodhead Creek Regional Authority and Aqua Pennsylvania as they square off for the third annual Hydrant Hysteria competition.

Wednesday offers another chance to visit with vendors, attend tech sessions, and earn CEUs. The Diversity, Membership and Young Professionals committees are hosting a networking lunch. This is a great opportunity to meet peers, share ideas, and learn how to get involved in AWWA!

This year's conference, like past years, was made possible by the hard work of our conference-planning committee, executive board, and section staff.

Special thanks to Peter Lusardi, Curt Fontaine and Jim DeWolfe for putting together the tech sessions. Thanks to our MAC chair, Kurt Bonnet, for the Exhibit Hall layout and booth assignments, and Sharon DelSignore for her work on the Monopoly game. Thanks to Chip Bilger, Mike Brown, Craig Palmer, Zach Martin, Trisha Graves, Erin Rapp, Eloise Gibby, Caitlin Cavanagh, Kelly Good and Dan Preston for their contributions. Also, special thanks to Bob McIntyre and Nickole Uva for their work with Water For People and DBIA. Finally, thank you to our section staff – Don Hershey, Nancy Dinger and Patty Chila.

I assume the role of Chair this year as we are poised to put COVID-19 in the rearview mirror and return to business as usual. I am excited for this conference, as well as the various Spring and Fall section meetings throughout the state. Please visit our website for events and training opportunities. More importantly, consider getting involved, whether as a volunteer, a committee or board member. We are constantly looking to grow and improve our organization and to do that, WE NEED YOU! I look forward to seeing you in April!



**Tim Trout**  
Chair-Elect

## About Tim Trout

Tim graduated from Bloomsburg University in 1990 with a B.S. in Accounting. He spent 17 years with the Mueller Company as their Pennsylvania territory manager. He joined Ferguson Water Works in 2016, and is currently a municipal sales manager covering the Northeast. Over the past 22 years, Tim has been involved with the AWWA and Rural Water organizations. He has coordinated and instructed many CEU-approved classes, along with informal presentations and training. Tim is currently the Chair-Elect for the Pennsylvania Section of AWWA. 🌟



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## STEVE JONES ANNOUNCED AS CONFERENCE KEYNOTE SPEAKER



**Steve Jones**, will serve as the keynote speaker for the 74th Annual PA-AWWA Conference. Jones, who serves as the play-by-play voice for Penn State football and men's basketball, also covers a variety of Penn State and local sports. He serves as the lead play-by-play voice of the State College Spikes and teaches sports broadcasting in the John Curley Center for Sports Journalism.

Communications students and professional broadcasters utilize the Steve Jones Student Sports Broadcasting Complex, housed in Rec Hall, when they work on the Penn State campus. The state-of-the-art complex (made possible with a gift from Penn State alumni Richard and Susan Barry) offers opportunities for hands-on experiences to students pursuing careers in sports broadcasting. 🎧

## JON EATON TO BE AWWA'S REPRESENTATIVE



**Jon Eaton**, American Water Works Association Treasurer, will be the organization's official representative at this year's PA-AWWA conference. Eaton, who also serves as the Superintendent of Utilities for the City of Eagan, the ninth largest city in Minnesota, manages the water, sanitary, and storm systems, and cellular leasing.

Prior to Eagan, Jon was the Water Quality Supervisor for the City of Bloomington, Minnesota, and managed water production and treatment, wholesale water purchases, distribution water quality, and the William Lloyd/Tri-City Analytical Laboratory.

Jon graduated with a Bachelor of Chemistry from the Institute of Technology at the University of Minnesota Twin Cities Campus.

Jon has been a member of AWWA for over 25 years, is an AWWA Utility Member, Research Foundation subscriber, and a Water Equation and Water For People supporter. He has significant experience at the Association and Section levels, and was honored with AWWA's George Warren Fuller Award in 2008 and the Minnesota Section's Leonard N. Thompson Award for Distinguished Service in 2013.

Jon has traveled to Africa and Central America to help villages address water supply and distribution issues, managed and participated in public infrastructure projects, and assisted with education and medical services. 🎧

## BUSINESS LUNCHEON

Tuesday, April 26, 2022 | 11:30 a.m. to 1 p.m. | Dean's Hall 12

The official Business Meeting and election of our new Section leaders will be held during our Annual Business Luncheon. Please join us for a delicious lunch prepared by chefs at Penn State and help celebrate the outstanding Section's member awardees.

### Awards to be Presented

David A. Long Scholarship  
Rising Tide/Young Professional  
Operator Meritorious Service  
Special Recognition

### 2022 – AWWA Tenure Awards

AWWA honors significant membership tenure with the following awards: Gold Water Drop, Life Member Status and Silver Water Drop Awards.

### Opening Session and Awards

Tuesday, April 26, 2022 |

9:00 to 11:30 a.m. (Room 208)

Welcome – Jim DeWolfe

(PA-AWWA Section Chair)

Jon Eaton

AWWA Treasurer

### Keynote Speaker

Steve Jones – play-by-play voice  
for Penn State football and  
men's basketball

### AWARD PRESENTATIONS

#### SAMUEL A. BAXTER AWARD

Presented by  
Zach Martin  
PA-Section Vice-Chair

#### GEORGE WARREN FULLER AWARD

Presented by  
Jon Eaton

#### Announcements and Adjournment

Jim DeWolfe  
PA-Section Chair

## OPERATOR SESSIONS

### Tuesday, April 26, 2022

#### Saving Energy in Pumping

Dr. Thomas Walski (Bentley Systems)

2.0 PA DEP Contact Hours – Water (Room 106)

8:30 a.m. to 12 noon

#### Stage 2 Disinfection Byproducts Rule Review

(DEP Course ID 8425) 3.0 hours

PA DEP Contact Hours – Water (Room 107)

8:30 a.m. to 12 noon

### The Valve Workshop

Robert Waldele

(Mueller Company &  
Ferguson Waterworks)

3.0 PA DEP Contact Hours –

Water & Wastewater

(Room 106)

1:00 to 4:30 p.m.

### Wednesday, April 27, 2022

#### Electrical Hazards

Ray Delo

3.5 PA DEP Contact Hours –

Water (Room 106)

8:30 a.m. to 12 noon

## YOUNG PROFESSIONAL NETWORKING/WATER FOR PEOPLE SILENT AUCTION COMMITTEE OPEN HOUSE

### Water For People Silent Auction

Tuesday, April 26, 2022 | 1 to 7:00 p.m.

Wednesday, April 27, 2022 | 8 a.m. to 1:30 p.m.

The Silent Auction will take place outside the President's Hall (Exhibit Hall). Please stop by on Tuesday and Wednesday to place a bid on one of many exciting items. Final bid winners will be announced in that same location between 12:30 and 1:30 p.m. on April 27. All proceeds help those less fortunate to enjoy clean, drinkable water.

### Committee Open House

Tuesday, April 26, 2022 |

2:00 to 4:30 p.m.

All committees are invited to bring their ideas and goals for future activities to the Senate Suites. This is a great opportunity to meet with committee members, get to know what each committee is about, and what they are planning for the new year.

### Young Professionals

#### Network Luncheon

Wednesday, April 27, 2022 |

12 noon to 1:30 p.m.

All young professionals are invited to have lunch together in the Exhibit Hall and share some of their upcoming events and ideas for networking opportunities.

## TENTATIVE CONFERENCE SCHEDULE

## MONDAY, APRIL 25, 2022

TIME		LOCATION
10:00 a.m.-5:00 p.m.	Annual Golf Outing at Wyndham Garden at Mountain View	310 Elks Club, Boalsburg, PA 16827
6:00-8:00 p.m.	Meet and Greet Social Gathering at the Penn Stater	Senate Suites
1:00-5:00 p.m.	Registration for Early Attendees	Registration Desk 2
4:00-5:00 p.m.	On Boarding/Board Meeting	Courtyard Lounge

## TUESDAY, APRIL 26, 2022

TIME		LOCATION
7:00 a.m.-5:00 p.m.	Conference Registration	Registration Desk 2
10:00-10:30 a.m.	Morning Breakfast Break	1st & 2nd Floor Break Areas
8:30 a.m.-4:30 p.m.	Full Day Operator's Session – DEP Contact Hours TBD	
	<b>8:30 a.m.-12 noon – Saving Energy in Pumping</b> Dr. Thomas Walski (Bentley Systems) 2.0 PA DEP Contact Hours (water)	Room 106
	<b>8:30 a.m.-12 noon – PA DEP: Stage 2</b> Disinfection Byproducts Rule Review – Sabrina Haydt, Bill McNamara 3.0 PA DEP Contact Hours (Water)	Room 107
	<b>1:00-4:30 p.m. The Valve Workshop</b> – Robert Waldele Mueller Company & Ferguson Waterworks 3.0 PA DEP Contact Hours (water & wastewater)	Room 106
8:30 a.m.-12 noon	DBIA Board Meeting	Room 202
9:00 a.m.-11:30 a.m.	<b>Keynote Speaker:</b> Steve Jones, Sports Commentator <b>AWWA Representative:</b> Jon Eaton, Superintendent of Utilities for the City of Eagan	Room 208
10:00 a.m.-1:00 p.m.	Exhibit Hall Set Up	President's Hall 1-4
11:30 a.m.-1:00 p.m.	<b>Business Luncheon &amp; Awards Presentations with Lunch</b> Ticketed Event	Dean's Hall 12
12 noon-1:00 p.m.	Operator Brown Bag Lunch	1st Floor Break Area and eat-in Room 105
1:30-4:30 p.m.	DBIA Sponsored Tour of the Penn State University Wastewater Treatment Plant	Penn State University Wastewater Treatment Plant
1:30-4:30 p.m.	Technical Sessions	Rooms 204 and 205
1:00 p.m.	Exhibit Hall Opens	President's Hall 1-4
1:00-7:00 p.m.	Silent Auction/Fresh Ideas Poster Contest/Monopoly Game	President's Hall 1-4
2:30-3:00 p.m.	Afternoon Break & Raffle Drawings for Operators	Area Outside President's Hall
3:00-4:30 p.m.	PA-Section Committee Open House/PA-AWWA PFSW Mixer	Senate Suites
3:00-7:00 p.m.	<b>Water Taste Test</b> – 3:00-6:00 p.m. <b>Celebrity Panel Taste Test</b> – 6:15-7:00 p.m.	President's Hall 1-4
6:15-7:00 p.m.	Celebrity Panel of Judges determine Best Tasting Water & Winner goes to ACE22 to compete	President's Hall 1-4
4:30-7:00 p.m.	<b>Hydrant Hysteria Contest</b> – 4:30-5:30 p.m. <b>Tank Building Contest</b> – 5:30-6:30 p.m.	Locations TBD

## TENTATIVE CONFERENCE SCHEDULE

## TUESDAY, APRIL 26, 2022

5:00-7:00 p.m.	<b>Exhibit Hall Networking Event</b> – Visit with representatives from the water industry's leading companies. Participate in the Vendor Drawing and the Monopoly Game and you could win a fabulous prize! Take part in the Water For People Silent Auction and get a great deal for a great cause! Poster Contest Winner will be announced. Appetizers, beer and wine will be served.	President's Hall 1-4
5:30 & 6:30 p.m.	Vendor Drawings – Exhibit Hall	President's Hall 1-4
7:00 p.m.	<b>DBIA-Sponsored Event at CHAMPS Sports Bar – North Atherton</b> Participants must get wristband from DBIA Booth.	Champs Sports Bar

## WEDNESDAY, APRIL 27, 2022

TIME		LOCATION
7:00 a.m.-1:00 p.m.	Conference Registration	Registration Desk 2
7:00 a.m.-8:30 p.m.	<b>Exhibit Hall Breakfast</b> – Come start your day with an outstanding breakfast buffet before attending the day's training sessions.	Area Outside President's Hall
7:00 a.m.-8:30 p.m.	Prayer Breakfast	Senate Suites
7:00 a.m.	Exhibit Hall Opens	President's Hall 1-4
8:30-11:30 a.m.	Design-Build Institute of America Tech Sessions/General Session	Room 202
8:30-11:30 a.m.	PA-AWWA Technical Sessions Track 1 and Track 2	Rooms 204 and 205
8:30-11:30 a.m.	Water For People Silent Auction and Monopoly Game	President's Hall 1-4
8:30 a.m.-12:00 noon	<b>Operator Session</b> – Electrical Hazards Operator Session Ray Delo 3.5 PA DEP Contact Hours	Room 106
8:30 a.m.-1:00 p.m.	Registration and Operator Certification Testing	Rooms 207 & 208
9:00-11:30 a.m.	Water Utility Council Committee Meeting	Room 107
10:00-10:30 a.m.	Morning Exhibit Hall Break/Vendor Raffle Drawings/Monopoly Game	Area Outside Senate Suite
12:00 noon-1:30 p.m.	<b>Exhibit Hall Lunch</b> – Enjoy an appetizing lunch and stop by and visit the many exhibitors displaying their products and services.	Dean's Hall
12:00 noon-1:30 p.m.	<b>Networking Lunch</b> – The Diversity, Membership, and YP committees invite their members to meet peers, share ideas, and learn how to get involved in AWWA!	Dean's Hall
1:30-4:30 p.m.	Design-Build Institute of America Session/General Session	Room 202
1:30-4:30 p.m.	PA-AWWA Technical Sessions Track 1 and Track 2	Rooms 204 and 205
2:00 p.m.	Exhibit Hall Teardown	President's Hall 1-4
2:30-3:00 p.m.	Afternoon Break	Area Outside Technical Sessions

## PA-AWWA TECH SESSIONS

## TUESDAY, APRIL 26, 2022

	DISTRIBUTION – TRACK #1	LEAD AND PFAS – TRACK #2
1:30-2:00 p.m.	<b>Steve Soldati, P.E.</b> – Choosing the Right Rehabilitation Solution for Pressurized Pipelines based on the AWWA M28 Manual	<b>Tate Kunkle</b> – Responding to PFAS Contamination in Pennsylvania: Shifting Costs from Water Suppliers to Polluters
2:00-2:30 p.m.	<b>Chris Sundberg</b> – Design of AWWA Steel Rings Flanges	<b>Vasikan Vijayashanathar</b> – Assessment of Lead in Drinking Water from Multiple Drinking Water Sampling Programs in Pittsburgh, PA
2:30-3:00 p.m.	<b>Greg Frey</b> – Meters as a Cash Register	<b>Kevin Flis</b> – Optimizing Lead Service Line Replacement with Machine Learning
P.M. Break 2:30-3:00 p.m.		
3:30-4:00 p.m.	<b>Kevin Flis</b> – Beyond AMI – Reaching Every Drop	<b>Sheela Lal</b> – Handling Data Bias in Lead Service Line Inventories
4:00-4:30 p.m.	<b>Jason Davenport, P.E.</b> – Spray in Place Water Main Rehabilitation	<b>Adam Redding</b> – Pilot-Scale Evaluation of GAC and Ion Exchange for Removal of PFAS from Groundwater

## WEDNESDAY, APRIL 27, 2022

	WATER SUPPLY CHALLENGES – TRACK #1	PILOTING/WTP UPGRADES – TRACK #2
8:30-9:00 a.m.	<b>Zia Lyle</b> – Climate-Focused Planning Framework for Water Utilities	<b>Jonathan Reuther, P.E., PMP</b> – A Flight Plan for Success – The Role of Pilot Testing in Treatment Plant Design
9:00-9:30 a.m.	<b>Ben Wright</b> – Strategies for Source Water Protection	<b>Sean McKelvey</b> – Reaching New Highs: Informing High-Rate Filtration Permits through Piloting
9:30-10:00 a.m.	<b>Mfon Ibekwe</b> – Effects of Changing Source Organic Carbon on Drinking Water Treatability: 1997-1998 to 2019-2020	<b>Erica Goldin and Nick Hyde</b> – OCWA Lake Ontario Water Treatment Plant Improvements – Sustaining Water Quality of Future Generations
A.M. Break 10:00-10:30 a.m. in Exhibit Hall		
10:30-11:00 a.m.	<b>Sarah Ehrman</b> – Overcoming Raw Water Supply Challenges	<b>Richard Ross</b> – WTP – Rehab & Expansions – Lessons Learned
11:00-11:30 a.m.	<b>Kevin W. Custer, PhD</b> – PFAS Regulatory Status Update for Drinking Water and UCMR 5 Update	<b>Mike Mehaffey and Andrew Crew</b> – A Bright Idea Implement New UV and Chemical Systems at Existing Water Treatment Plants

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## PA-AWWA TECH SESSIONS

### Exhibit Hall Lunch 12 noon to 1:30 p.m. in Exhibit Hall

	ASSET MANAGEMENT – TRACK #1	REGULATIONS/WATER QUALITY – TRACK #2
1:30-2:00 p.m.	<b>Robert Boos</b> – Navigating New Federal Infrastructure Funding	<b>Jim DeWolfe</b> – AWWA Regulatory Updates
2:00-2:30 p.m.	<b>Jeremy Cherelli</b> – DNP3: The Secret SCADA Protocol You Should Know	<b>Tom Caulfield</b> – Distribution System Water Quality Improvements with Implementation of Active Tank Mixing
<b>P.M. Break 2:30-3:00 p.m. in Exhibit Hall</b>		
3:00-3:30 p.m.	<b>Paul Hanson</b> – Asset Management and Condition Assessment for Iron Pipes	<b>Kathleen Beaudoin</b> – Effect of Spray Aeration on Unregulated Disinfection Byproduct Removal
3:30-4:00 p.m.	<b>Christine Gunsaulus</b> – Easy, Low-Cost Ways to Extend the Life of Your Tank	<b>Jamie R. Shambaugh, P.E.,</b> <b>Timothy Glessner, P.E.</b> – Got Gas? 5 Things You Need to Know About Chlorine Gas to Sodium Hypochlorite Conversion
4:00-4:30 p.m.	<b>Nicole Clarke</b> – Infrastructure Asset Management	<b>Vijay Bhatia</b> – Development and Application of Methods for Microplastics in Drinking Water



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## DBIA

## TUESDAY, APRIL 26, 2022

Time	Tuesday, April 26	Location	Presenters
1:30-4:00 p.m.	<b>Site Visit to the Penn State University WWTP</b> – Buses will be provided for transportation to and from the facility from the PennStater. This is an active construction project, so open-toed shoes are not permitted. Safety items (hard hat, vests, etc.) will be provided.		
7:00-10:00 p.m.	<b>DBIA Networking Event</b> – Wristbands required. No-cost wristbands can be picked up at the DBIA or Stone Hill Contracting Booths in the Exhibit Hall.	Champs Sports Grill, 1611 N. Atherton, State College, PA	

## WEDNESDAY, APRIL 27, 2022

Time	Wednesday, April 27	Location	Presenters
7:00-8:30 a.m.	Prayer Breakfast	Senate Suite	Grab Breakfast outside President's Hall and Bring to Prayer Breakfast
8:30-9:30 a.m.	Leveraging BIM & VDC for Design Build	Room 202	Brian Skirpac
9:30-10:00 a.m.	Selecting an Owner Advisor	Room 202	Steve Ruether – The Bell Company
10:00-10:30 a.m.	A.M. Break	Outside Senate Suite	
10:30-11:30 a.m.	Delivering New Water Plant Upgrades to Improve Performance in 20 Months – The Ahtablula Story	Room 202	Rich Atoulkian – HDR
11:30 a.m.-12:00 p.m.	Exhibit Hall Visit with Vendors	Exhibit Hall	
12 noon-1:30 p.m.	Exhibit Hall Luncheon	Exhibit Hall	
1:30-2:30 p.m.	Design-Build Dream Team	Room 202	Steve Ruether – The Bell Company
2:30-3:00 p.m.	P.M. Break	Outside Technical Sessions	
3:00-3:30 p.m.	Insurance and Surety Market Update	Room 202	Gary Rispoli – Construction Risk Partner
3:30-4:00 p.m.	Design-Build in a Historical Water Treatment Plant	Room 202	Johnston Construction

## JOIN YOUR PEERS AT DBIA'S ANNUAL CONFERENCE NETWORKING EVENT

**Location:** Champs Sports Grill, 1611 N. Atherton Street in State College, PA**Date:** April 27, 2022 | **Time:** 7-10 p.m.

Please join the Design Build Institute of America (DBIA) Liberty Region (NY, NJ, PA, DE) for its annual networking event in conjunction with the PA-AWWA Annual Conference. The event is free of charge, however, wristbands are required and will

be available at the DBIA Booth, Stone Hill Contracting Booth and Water For People Booth on the exhibit floor.

There will be food, door prizes, as well as refreshments. Beverage tickets (two per person) will be distributed at the door.

Additional drinks are available on a pay-as-you-go basis.

A special thanks to the DBIA Sponsors for this great event. There is a limited number of wristbands available (due to facility and fire restrictions), so get your wristbands early. 🍷

## PENN STATE WASTEWATER TREATMENT PLANT TOUR

**Location:** University Park | **Date:** Tuesday, April 26 | **Time:** 1:30 p.m.

In July 2017, Penn State University contracted with Haskell Construction for the Design Build construction of upgrades to the Wastewater Treatment at the University. Haskell Construction teamed with Hazen and Sawyer as Design Engineers for the project.

The majority of the existing plant dated back to the 1950s and 1960s, with some of it back as far as 1913, and was nearing the end of its useful life. The project will upgrade the processes at the plant as well as add safety improvements. The upgrades provide a treatment capacity of 3 million gallons per day utilizing a microfiltration process, which will improve effluent quality and produce DEP Class A reclaimed water. Class A reclaimed water can be used for irrigation, cooling tower make-up water as well as toilet flushing. The University has long employed a 'living filter,' a



unique, sustainable process that ends with spray irrigation at Penn State agricultural fields about 2.5 miles from the core campus. The irrigated water naturally filters through plants, soil and rocks before recharging the regional water table. The process has resulted in no direct discharge from the wastewater treatment plant to a surface stream since 1983.

A tour will be conducted during the PA-AWWA Annual Conference. Bus transportation will leave the Penn Stater

Hotel on Tuesday, April 26 at 1:30 p.m. and will travel to the treatment plant, where a guided tour will be conducted. The bus should be back to the Penn Stater by no later than 4:30 p.m. It should be noted that for safety reasons, open-toe shoes will not be permitted during the tour. Hard hats and other safety items that are required, will be provided at the site.

PA-AWWA and DBIA Liberty Region would like to thank Penn State University, Haskell Construction and Hazen and Sawyer for coordinating this event, and allowing us to visit the site. 🙏

## PA-AWWA 1ST ANNUAL PRAYER BREAKFAST

**Location:** Senate Suite, outside of President's Hall (Exhibit Hall) | **Date:** April 27, 2022 | **Time:** 7 a.m.

In these uncertain times, it is with much joy that we announce the PA-AWWA's 1st Annual Prayer Breakfast. This non-denominational prayer breakfast will be held on Wednesday, April 27, 2022 at 7 a.m. in the Senate Suite. Food will be available outside of President's Hall (Exhibit Hall) and can be brought into the Senate Suite, which is just down the hall.

The Prayer Breakfast will include a keynote address from John Civardi, P.E.

(Global Practice Leader Water and Wastewater Treatment with Mott MacDonald), as well as fellowship and sharing.

Romans 12:12 tells us to "Be joyful in hope, patient in affliction, faithful in prayer." Our hope with the Prayer Breakfast is that we may share the joys as well as the challenges, but in all offer it up in prayer. Even in these uncertain times, we know there is hope, and we can rejoice in that hope. In spite of what may be happening around us, we have

much to be thankful for, and we can rejoice, at least in the fact of knowing that we are part of an industry that cares about people, and produces life-sustaining water to those throughout Pennsylvania and beyond.

We hope that you will be able to take a few minutes out of your busy conference schedule and join us as we pray for those in need, as well as our industry as a whole, and rejoice in the all the blessings we have been given. 🙏

# PA-AWWA 2022 CONFERENCE SPEAKER BIOS

**Adam Redding** has worked in the activated carbon industry since 2008 in applications involving municipal, industrial, and food and beverage water treatment. Adam completed his PhD in Environmental Engineering at Penn State University in 2008. For his M.S. and PhD degrees, he focused on predicting the performance of activated carbons for the removal of emerging contaminants from drinking water.

**Andrew Crew** is a Project Specialist with over three years of experience in the water/wastewater consulting field at Gannett Fleming. He is responsible for the design of water and wastewater treatment plants, pump stations, water pipelines, and associated facilities. Andrew is responsible for water modeling, preparing technical reports, engineering cost estimates, operations and maintenance manuals, reviewing shop drawings, construction inspection, and assisting in providing annual consulting services to municipal clients in the areas of permitting, planning, and design. Andrew received his Bachelor's in Civil Engineering and Master's in Environmental Engineering from Pennsylvania State University. He is a member of Central Pennsylvania Water Quality Association, Community Engineering Corps and American Water Works Association.

**Brian Skripac** is the Director of Virtual Design and Construction at Design-Build Institute of America, where he focuses on tools and best practices for integrating design-build processes and technology. Brian has more than 15 years of leadership defining how people, processes and technology come together to transform collaborative project delivery. He leads the development of strategies to leverage the design-build "whole team" approach to Building Information Modeling and Virtual Design & Construction implementation, while generating significant benefits for projects and stakeholders.

**Ben Wright** is the Source Water Protection lead for Hazen and Sawyer's water resources management group. With a strong background in treatment process technology and systems modeling, Ben helps utilities gauge watershed risks and develop effective response plans to improve resilience. He has evaluated source water threats for utilities in Pennsylvania, North Carolina, Virginia, New Jersey and New York, and has also led a number of studies for the Water Research Foundation on source water risks from invasive species to hydraulic fracturing.

**Chris Sundberg** is an Infrastructure Consultant who works from his home in Issaquah, WA in the capacity of technical advisor to Victaulic, Easton, PA. He is a registered Structural Engineer in Washington State and Senior Certified Welding Inspector with a background in design of global water projects. Chris is active on several national committees, including American Water Works Association, steel pipe and stainless-steel technical committees. He is active on the ASCE taskforce for seismic design of buried pipelines and is the past chair of AWWA C301 (Pre-stressed Concrete Cylinder Pipe), C303 (Bar-Wrapped Concrete Cylinder Pipe) & C304 (Design of Pre-stressed Concrete Cylinder Pipe) technical committees. Chris is nationally recognized and has provided pipeline and welding consultation for New York City, San Francisco, and London, England.

**Christine Gunsaulus** brings a unique blend of book smarts and field experience to Entech Engineering. Dual engineering degrees from Drexel University, coupled with 27 years of experience in storage tank building, repairs, and coating inspection has earned her the title Storage Tank Queen. Christine frequently presents at regional and national municipal, water and wastewater conferences, where she shares tank tips and explains how to prevent coating catastrophes.

**Chuck Krohg** graduated from Penn State University with a B.S. in Mechanical Engineering. He works at Mueller Systems covering PA, NJ and NY. He recently joined the PA-AWWA and Rural Water trade organizations.

**David Peterson** is a Sales Associate with Swan Analytical with extensive experience in industrial and chemical sales, covering the Northeast Territory. David has a B.S. in Chemistry from William Patterson University, and a Master's in Environmental Science from New Jersey Institute of Technology.

**Erica Goldin** received a B.S. in Environmental Engineering from the University at Buffalo. She has worked as an engineer at GHD for over six years, serving in an engineering role on several projects related to water and wastewater. Erica has primarily worked in the fields of study, design, and construction management of water supply, treatment, distribution, pumping, and storage facilities.

**Greg Frey** is from the Lehigh Valley Area residing in Bethlehem, PA. After attending Temple University, he went into sales at a small business. He later went on to work in the fire protection market for seven years before joining Ferguson Waterworks in January 2021 where he is an AMR/AMI specialist covering the state of Pennsylvania as part of the meter and automation group.

**Jim DeWolfe** is Chair of the Pennsylvania Section AWWA, with over 30 years of water industry experience. He has assisted drinking water utilities throughout the United States and Canada in achieving operational excellence and optimization, with emphasis on coagulation and filtration. He is a recognized drinking water treatment and training expert, a licensed P.E., a board-certified environmental

engineer, and a certified Waterworks Operator (PA). He holds both a B.S. and M.S. in environmental engineering from Penn State University, and is a U.S. Navy Submarine Force veteran. He has authored numerous AWWA and WRF publications and empowered hundreds of operators to self-perform operational evaluations and process optimization, especially with respect to coagulation, filtration, and residuals management.

**Jamie Shambaugh** is a Vice President and Chief Engineer for the water sector at Gannett Fleming, Inc. His expertise, built over a 20-year career, includes management of the water process and operations group. He earned a B.S. in Environmental Engineering from Wilkes University and his Master's in Environmental Engineering from Pennsylvania State University. Based in Harrisburg, Jamie continues to lead operations and drive quality for the firm's Pennsylvania clients.

**Jason Davenport** is a GHD Project Manager with 20 years of civil engineering design and construction experience. He has worked on a variety of municipal water resources projects, including water and wastewater treatment, collection and pumping systems, as well as wetland mitigation, industrial remediation, tunnel renovation and transportation improvements. Jason is a licensed civil engineer in the State of New York.

**Jeffrey Jackson** is a Managing Engineer with Brown and Caldwell located in the Philadelphia office. He has over 12 years of engineering experience in drinking water treatment plant planning, design, optimization and commissioning. He serves as the Local and Operations Leader for Philadelphia.

**Jeremy Cherelli** is Keystone's Automation Quality Assurance Manager and Senior Programmer with over 20 years of electrical and automation experience in the water, wastewater, food and beverage, and petrochemical industries. He received his B.S. in Electrical Engineering from Penn State University in 1999. In 2017, Jeremy was named as an Associate or Keystone. He is a registered professional engineer in

Pennsylvania and is an Invensys Wonderware Certified Application Developer. His specialties include control system design and implementation for new facilities, and upgrades to existing facilities. Jeremy provides project management, design, and programming services for industrial, municipal, and commercial clients.

**Jonathan Ruether** is involved in various aspects of surface water treatment plant evaluation and design at Mott MacDonald, and served as the project manager for the pilot testing at the Shenango WTP.

**Kathleen Beaudoin** is a graduate research assistant at Carnegie Mellon University. Her work focuses on the use of spray aeration for drinking water disinfection byproduct control, particularly its effect on unregulated, toxicity-driving disinfection byproducts. Kathleen earned a B.S. in Environmental Engineering from the University of Pittsburgh in 2020.

**Kurt Bonnet** was born and raised in the Greater Pittsburgh area, where he completed his undergraduate and graduate degrees at Waynesburg University in Southwestern Pennsylvania before entering the sales industry. He is currently the PA-AWWA MAC Chair, and is employed with Neptune Technology.

**Kevin Flis** has been integral to building outcome-driven solutions for water and wastewater utilities. He received his B.S. in Chemical Engineering from Iowa State University, and has over 14 years of experience in water and wastewater. Kevin's work has focused on advanced treatment, alternate delivery, emerging contaminants, potable reuse, and most recently, digitally enabled solutions, where he is working with utilities to drive down non-revenue water and improve lead service line replacements.

**Kevin Custer** is a Program Manager in emerging contaminants with Pace Analytical. He has been with Pace since 2017, and works in the areas of

compliance, drinking water, wastewater, and stormwater. Kevin received his B.S. in Natural Resources from Ohio State University, and his M.S. and PhD degrees from Wright State University in Aquatic Ecotoxicology.

**Mfon Ibekwe** is a graduate research assistant at Carnegie Mellon University (CMU). She obtained a B.S. in Civil Engineering from Stanford University prior to attending CMU where is currently researching the impact of climate change on drinking water quality and how changing water quality affects drinking water treatability.

**Michael Convery** graduated from Penn State University with a Bachelor of Engineering in Environmental Systems Engineering. He joined Aqua America in 2009, and is currently Manager of Engineering & Planning, responsible for water treatment and distribution projects in multiple states.

**Mike Mehaffey** is a Vice President and Project Principal at Gannett Fleming with over 17 years of experience in the water/wastewater consulting field. Mike is responsible for directing engineering services related to water resources and water utilities, including comprehensive planning studies, management studies, financial analyses, and the design of projects, including water and wastewater treatment plants, pump stations, and transmission mains. Mike received his Bachelor's in Civil Engineering and his Master's in Environmental Engineering from Pennsylvania State University. He serves as a board member for the Central Pennsylvania Water Quality Association, a liaison to the PA-AWWA Water Utility Council, and is a member of American Water Works Association.

**Nicholas Hyde** is a Senior Project Manager at GHD. He received his B.S. in Civil Engineering, and his M.S. in Engineering Management from Clarkson University. He has spent the last 15 years

working as a consulting engineer, specializing in drinking water treatment, storage, and distribution projects.

**Nick Sanford** is a Project Manager at Aqua Ohio. He was previously Director of Public Utilities and Municipal Project Engineer in Northeast Ohio where he successfully leveraged grant funding for public improvements to optimize utility rates and bolster infrastructure asset management. Nick has worked as a Grant Writer and strategist for non-profit organizations. At Aqua, he focuses on planning, design, and execution of critical infrastructure upgrades and expansion.

**Nicole Clarke** serves as client liaison in the development and execution of tank rehabilitation and new tank construction projects throughout the eastern portion of the United States, and manager of Tank Industry Consultants' East Region. Her responsibilities include project management and troubleshooting. Since joining TIC in 2009, Nicole has been actively involved in tank evaluation, rehabilitation, and new tank construction projects for a number of east coast clients, including four of the largest American water subsidiaries. Nicole is a graduate of Clarion University of Pennsylvania, and has been involved in the structural coatings industry for more than 17 years. She is also responsible for new business development.

**Paul H. Hanson** received his B.S. in Civil Engineering from Valparaiso University. He has worked as a Project Engineer for a consulting firm, a Construction Engineer for a large underground contractor, a Construction Supervisor, and a General Superintendent for a water/sewer utility in Suburban Chicago. Paul joined Ductile Iron Pipe Research Association in 1989, and is a registered professional engineer in Illinois and Indiana, a NACE International Certified Corrosion Specialist, and an Envision SP. He is a member of the American Water Works Association, NACE International, the American Public Works Association, and the American Society of Civil Engineers.

**Richard R. Ross** is a Regional Product Manager for WesTech Engineering, LLC. He has worked in the water and wastewater industry for over 25 years, serving in various positions in project engineering, project and sales management. He has a B.S. in Mechanical Engineering from the Rochester Institute of Technology, and a P.E. from Ohio and Maryland. He leads training events for operators and engineers across the country.

**Robert Boos** is the Deputy Executive Director for project management at the Pennsylvania Infrastructure Investment Authority where he oversees water quality infrastructure project development. Rob began as a Field Technician with Lawrence County Conservation District. He has worked at the Department of Environmental Protection in the Water Quality Program as a Nutrient Management Specialist, Compliance Specialist, Sewage Planning Supervisor, and Sewage Facilities Group Manager. For the last eight years, Rob has been with PENNVEST overseeing the operations for the Nutrient Credit Trading Clearinghouse. Rob earned his B.S. in Environmental Science with a minor in Biology from Westminster College.

**Sara Ehrman** has served as Project Designer/Specialist in the Water Practice at Gannett Fleming, Inc. since 2017. She began her career at Gannett Fleming as an intern while completing her B.S. in Civil Engineering at Penn State University. She is responsible for

the layout and design of water treatment plants and pump stations through the development of plans and specifications for construction documents. Sarah regularly engages in the design of water treatment processes, including the development of technical reports, specifications, drawings, permit applications, and construction cost estimates, performing hydraulic calculations, and vendor and interdisciplinary coordination. Sarah is a member of American Water Works Association and American Society of Civil Engineers.

**Sean McKelvey** is an environmental engineer in the Planning & Research Unit of the Philadelphia Water Department. He has five years of experience in both water and wastewater topics, such as pilot plant operations, data management and analysis, data-driven modeling, nutrient management, and food waste co-digestion.

**Sheela Lal** is BlueConduit's State Lead (Pb) Service Line Program Coordinator and Water Equity Officer, and comes to BlueConduit from a long and varied career working to empower community development. She works with local and regional water systems across the nation to help them apply data science and proven predictive modeling to make their lead service line inventory and replacement projects affordable and efficient.



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**Steve Soldati** is a registered civil engineer in Florida and California. He attended California State University where he earned his B.S. in Civil Engineering. Steve has over 11 years of industry experience working in construction, design, sales, business development, project and program and asset management in both the private and public sectors.

**Stephen Waldvogel** is a Technical Director in GHD's water group. He holds a Bachelor's degree in Civil Engineering and a Master's Degree in Environmental Engineering from the University at Buffalo. He has been working in the water industry for over 20 years. Most of Stephen's work has been focused on assisting municipal water utilities to solve their technical, financial and/or organizational challenges in our rapidly changing industry. Stephen has worked with Buffalo Water since grad school doing research on dissolved air flotation technology.

**Steven A. Ruether** holds a B.S. degree in Civil Engineering, and has been involved in design and construction for over 30 years. He is currently President/CEO of the Bell Company, LLC located in Rochester, NY. Steven has been an advocate for Design-Build, joining DBIA in 2006. He has led multiple Design-Build teams on various projects, including aviation, military facilities and a correctional institution, and is the President of DBIA's Liberty Region, which covers the states of New York, Pennsylvania, New Jersey and Delaware. Steven is certified as a DBIATM Professional.

**Tate J. Kunkle** is a senior associate with Douglas and London. He has dedicated his career to helping cities, counties, water districts and individuals harmed by environmental pollutants. He graduated from Dickinson College with a B.A. in Anthropology, and received his J.D. and Master of Law (LL.M.) in Environmental Law from Pace in 2006 and 2008, respectively. He has presented on PFAS and aqueous film-forming foam at the Harris Martin Water Contamination Conference in Miami, the Litigating Class Actions Seminar for Law Seminars International in Seattle, and

before the New York State Associate of Counties. Tate was also a prolific speaker on groundwater contamination caused by high-volume hydraulic fracturing, or fracking, during the natural gas boom in the Marcellus Shale. He practises law in numerous states, as well as the Second Circuit Court of Appeals. Tate is a member of the American Bar Association and the Environmental Trial Lawyers Association.

**Thomas Bruns** has 46 years of public and private sector experience in the water industry, and currently serves as the Vice President of Business Development for 120Water, an Indiana-based technology company. Thomas retired from Aqua Indiana as its state president in December 2019 after 16 years with the utility, and was responsible for managing the company's water and wastewater operations. Prior to joining Aqua, Thomas was Vice President of Business Development at Indianapolis Water Company, responsible for record expansion of customer base and regional service territory in the late 1990s. From 1974 to 1989, he held various positions with the Indiana Department of Natural Resources and served as its Deputy Director for Water and Mineral Resources from 1986 to 1989. He holds a Bachelor's degree in Geology from Ball State University, and a Master's from Indiana University. In September 2019, Thomas was named a Sagamore of the Wabash by Indiana Governor Eric Holcomb in recognition of his career contributions to water resources management and utility excellence in Indiana.

**Tom Caulfield** is the Senior Product Manager for the Residual Control products for PSI Water Technologies, Inc. Tom worked as a Senior Supervisor of Operations at Aqua Pennsylvania for four years where he was responsible for 60 well stations and 75 distribution system storage tanks. He began his career with the Pennsylvania Department of Environmental Protection as a Water System Inspector, where he helped municipalities maintain compliance with state and federal drinking water quality regulations. Tom has a B.S. in Biology from Temple University in Philadelphia.

**Timothy Glessner** is a Principal Project Engineer and technical lead in Gannett Fleming's drinking water design group. Tim has over 30 years of experience in planning, design, permitting, and construction of drinking water treatment facilities using a wide variety of processes and equipment. He has designed facilities using various high-rate clarification processes, ozone, UV, on-site hypochlorite generation, and membrane filtration – both microfiltration and nano-filtration. As a DBIA-certified Design Build Professional, Tim is also experienced in alternative project delivery.

**Trey Johnston** has 27 years of water and wastewater treatment design experience, and is the President and Chief Executive Officer of Johnston Construction Company. He received his B.S. degree in Civil Engineering and his MBA from Lehigh University. Trey is a registered Professional Engineer in Pennsylvania, Maryland, Ohio, West Virginia, and Delaware.

**Vijay Bhatia** is a water quality researcher with the City of Philadelphia Water Department since 2016. His work focuses on identification and quantification of microplastics in Philadelphia's drinking and source waters using multistep separations and micro-FTIR techniques. Vijay's other projects include use of coal-derived fly-ash for synthesis of zeolites and their applications for industrial water remediation, investigating unknown contaminants in soils and water, and performing both wet and instrument analysis of different procurement samples for the city. Vijay has worked at Thomson Reuters on chemistry databases and analyzed research articles and patent literature, specifically within chemical, organic, pharmaceutical, and chemical biology areas, and holds a PhD in chemistry. He was a professor with Mumbai University before migrating to the U.S.A. in 2001.

**Vasikan Vijayashanthar** is a graduate research assistant at Carnegie Mellon University. Prior to joining CMU, Vasikan worked as a staff engineer at Mott MacDonald. His research interests include

urban water system sustainability, the fate and transport of contaminants in engineered and natural water systems, and watershed decision-making.

**Zach Martin** is the western area manager for Aqua Pennsylvania and serves as the Vice-Chair for the Pennsylvania AWWA. Zach is a graduate of Kent State University. He served in the Army National Guard and holds multiple

water and wastewater operator licenses in Pennsylvania and Ohio. As the plant manager during the majority of the pilot testing, Zach played a key role in the success of the pilot studies performed at the Shenango Valley WTP.

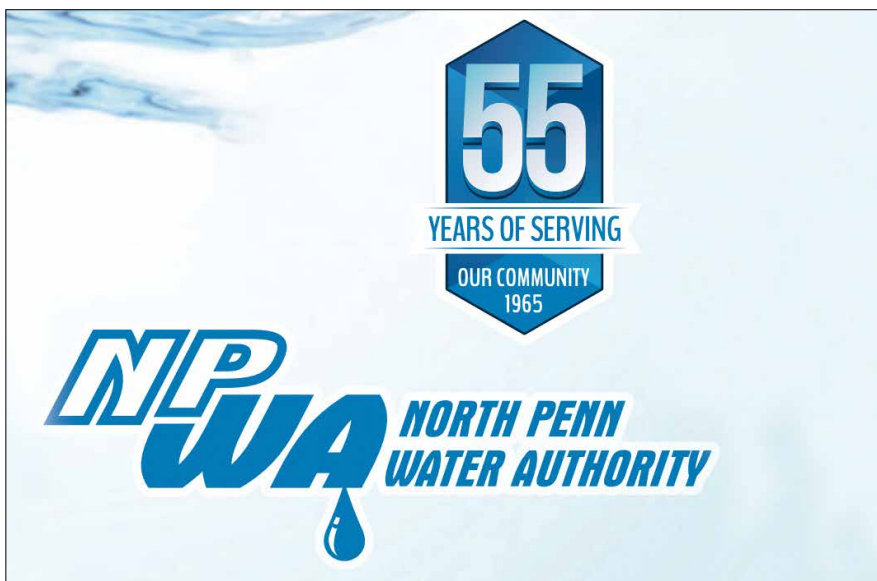
**Zia Lyle** is a second-year PhD student in Civil Engineering and Engineering and Public Policy at Carnegie Mellon University working with Drs. Jeanne

VanBriesen and Costa Samaras. She has a B.S. in Civil Engineering, and a B.A. from the University of Texas. Her research interests include climate change, public policy, and urban infrastructure systems. Her work focuses on sustainability and climate adaptation efforts, water utilities, specifically regarding the long-term planning of drinking water distribution infrastructure. ♻️

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