

**2025 MN/ND/SD Joint
Surface Water Treatment Workshop
Speaker Bios and Contact Info
April 22-24, 2025**

TUESDAY, APRIL 22

PROCESS APPLICATIONS, INC.

- Bill Davis (*bdavis@waterpai.com*)
- Paul Handke (*phandke@waterpai.com*)
- Indran Kamalanathan (*Indran.Kamalanathan@state.mn.us*)

Paul Handke works at Process Applications conducting training for state regulatory and optimization staff, including performing Comprehensive Performance Evaluations (CPEs) and sanitary surveys. Paul also works with the Environmental Protection Agency (EPA) and state agencies to develop optimization goals, guidelines and assessment tools, and associated training in areas related to drinking water treatment and distribution. Prior to working at Process Applications, Paul was a Drinking Water Application Development Manager for Hach Company and worked for the Pennsylvania Department of Environmental Protection for over 25 years. Paul is also a certified drinking water and wastewater operator in Pennsylvania.

Bill Davis, PE, has been with Process Applications, Inc., conducting training for operators and regulatory water system optimization staff for 13 years. Previously, he worked for 32 years for the EPA in the drinking water optimization program.

Indran Kamalanathan, PE, is a Compliance Engineer for the Minnesota Department of Health (MDH). Indran has a BS in Chemical Engineering from the University of Arkansas and an MS in Environmental Engineering from the University of Illinois at Urbana-Champaign. Indran is responsible for ensuring rule compliance with the surface water, total coliform, disinfection byproduct, and groundwater rules for MDH as well as conducting surface water treatment plant sanitary surveys. Indran is a member of AWWA and represents MDH as part of the EPA's AWOP program.

EPA Online Participants

- Rick Lieberman (*Lieberman.Richard@epa.gov*)
- Callie Acuff (*Acuff.Callie@epa.gov*)
- Tom Waters (*Waters.Tom@epa.gov*)
- Seth Tourney (*tourney.seth@epa.gov*)
- Jake Crosby (*Crosby.Jake@epa.gov*)
- Rachel Brookins (*Brookins.Rachel@epa.gov*)
- Justin Hussey (*Hussey.Justin@epa.gov*)

Online participants represent EPA employees working to introduce drinking water optimization program concepts to agencies and water systems in MN, ND, and SD.

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Jason Kosmatka, AE2S

Jason.Kosmatka@ae2s.com

Jason Kosmatka, PE, is a Senior Project Manager with AE2S where he has over 21 years of experience in the water treatment industry. After serving in the United States Marine Corps, Jason attended the University of North Dakota where he obtained his BS in Civil Engineering and master's degree in environmental engineering. Jason specializes in both ground and surface water treatment where he has been integral in projects ranging from Iron/Manganese removal to lime softening, ozonation, biological filtration, UV disinfection, and many other aspects of water treatment. Jason has three teenage boys and lives in Hawley, MN.

Fargo Mayor Dr. Tim Mahoney

tmahoney@fargond.gov

Dr. Tim Mahoney was elected Mayor of Fargo in early 2015 and was re-elected Mayor in June 2022. Immediately prior to the 2015 election, he served as a Fargo City Commissioner for ten years. The Mayor feels the most challenging part of his job is making sure voters' voices are heard and planning for their long-term needs and dreams. Mahoney enjoys meeting residents and learning more about the issues that will affect the City's future. "The citizens of Fargo are wonderful and want to make it a better place to live," Mahoney said. In addition to his job as a Mayor, Dr. Mahoney works at Physicians Vein Clinics and Family HealthCare in Fargo. He holds degrees from the University of Notre Dame, Tufts University, the University of North Dakota and Harvard University.

Dr. Johnny Johnson, American Fluoridation Society

drjohnny@americanfluoridationsociety.org

Dr. Johnny Johnson is a pediatric dentist and President of the American Fluoridation Society. He graduated from the University of Florida College of Dentistry. Dr. Johnson received his pediatric dental training from the University of North Carolina at Chapel Hill. Recently, he received a citation from the Chief Dental Officer of the U.S. Public Health Service, recognizing Dr. Johnson's leadership role in promoting water fluoridation.

Steve Burian, Burian Associates

Steve.burian@burianassociates.com

Steve Burian, PE, is President and CEO of Burian & Associates, LLC. A graduate of the University of North Dakota, Steve has over 33 years of experience and has devoted his career to providing engineering and consulting services for public and private clients throughout the Midwest. Much of his work has focused on surface water supply and treatment. Steve is a lifetime member of AWWA, a recipient of the AWWA George Warren Fuller Award, and has served on the AWWA Board of Directors representing the ND section. He has also served on numerous other strategic boards in leadership positions including the Valley Prosperity Partnership, UND College of Engineering and Mines Executive Board, UND Alumni Association and Foundation Board, and Grand Forks Region EDC Board.

Shawn Smith, McWane Ductile

shawn.smith@mcwaneductile.com

Shawn Smith, Utility Sales-WI, MN, ND, represents and promotes the sale and use of McWane Ductile products to customers, prospective customers, and municipal and consulting engineer specifiers. Smith brings over a decade of experience in the water industry, primarily in the commercial pipe, valve, and fittings market. In 2015, Supply

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House Times named him a "Top 20 Under 40 Young Executive." Shawn takes pride in working with people to help them find the best solution to their problem. Smith graduated from Purdue University with a B.A. in Selling and Sales Management. He also recently graduated from the University of Wisconsin-Whitewater with his MBA in Management. He lives in Wisconsin with his wife and two sons and enjoys rooting for his favorite sports teams, woodworking, and spending time with his family.

WEDNESDAY, APRIL 23

Eric Berggren, HDR

Eric.berggren@hdrinc.com

Eric Berggren is HDR's Water Treatment Business Class Director in charge of developing technical talent and maintaining HDR's quality culture. Eric has worked on many of HDR's largest water treatment plants including lime softening facilities throughout the upper United States. He graduated from the University of Nebraska in Biological Systems Engineering and is a Professional Engineer in Nebraska, Illinois, and Kansas.

George Kraynick, City of Minneapolis

George.kraynick@minneapolismn.gov

George Kraynick is the Water Quality Manager for the City of Minneapolis. He oversees the quality and quantity of water provided to over 400,000 customers in the metropolitan area. He is also an instructor for the Water Utilities Treatment Technology program at St. Paul College which offers a nontraditional path for students to obtain water and wastewater education. Upon completion of the program students can test for their D water and wastewater certifications.

Prior to working at Minneapolis, George spent 15 years working at a 40 MGD surface water treatment plant on the Ohio River in Pittsburgh, PA. During that time, he spent 10 years as a microbiologist and chemist before becoming Assistant Plant Manager and Laboratory Supervisor in 2005.

Qigang Chang and Troy Hall, City of Fargo

Qigang.Chang@AE2S.com

Troy Hall is the Water Utility Director for the City of Fargo. He is an alumnus of both Moorhead State University and North Dakota State University. He was the Section Chair for the North Dakota Section of the American Water Works Association in 2023.

Dr. Qigang Chang, PE, is a Senior Advanced Technical Specialist at AE2S. He has over 20 years of experience in water treatment facility design, operation optimizations, and wastewater effluent reuse. He is a well-recognized membrane technology expert and has provided pilot study, engineering design, and operation optimization on water treatment facilities and wastewater effluent reuse. He has been involved in the Sheyenne River and Red River Water Quality Monitoring Program since 2011, and he understands the issues/challenges that water treatment facilities face to treat the raw water from these two rivers.

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Faisal Ahmed, UND

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Faisal Ahmed is a Ph.D. graduate student in Environmental Engineering at the Civil Engineering Department of the University of North Dakota. He earned both his bachelor's and master's degrees at Jahangirnagar University at the Department of Environmental Sciences. He began pursuing his second master's degree in GIScience and Geoenvironment at Western Illinois University in 2023.

During his graduation from Jahangirnagar University, he was engaged in an internship project at FCI BD, a UK-based company on 'Wastewater Treatment', and was selected for the cultural exchange program for one year in Australia by the government of the People's Republic of Bangladesh in 2015. After graduation, he started working as a Research Assistant at the Organization for Human Development Initiatives through Research (OHDIR) foundation. His current research interests at UND include adsorption and membrane processes for removing emerging contaminants, membrane coating, and adsorbent synthesis.

His hobbies are exploring new things, playing Cricket, watching movies, and tree plantation. He has visited countries such as Nepal, India, Australia, Malaysia, the United Kingdom, Germany, Netherlands, Hungary, Portugal, the Czech Republic, Belgium, and France.

Jarrett Hillius and Joe Honner

Jarrett.hillius@hdrinc.com

Jarrett Hillius, PE, is a Water Engineer-Project Manager specializing in design and project management of water infrastructure projects, including potable water, industrial water, and wastewater facilities. His design experience includes raw water intakes, residual management facilities, storage ponds, lagoons, pressure and gravity distribution and collection pipelines, large transmission pipelines, pump stations, tanks and reservoirs, pipeline control vaults, and treatment facilities. His experience also includes CMAR project delivery, program management, project and staff management, construction and contract management, bidding and procurement preparation and administration, engineering studies and reports, system & facility master planning, as well as right-of-way and NEPA processes. Outside of work Jarrett enjoys spending time with his wife, daughter and two rescue dogs; enjoying the outdoors by hiking, kayaking, trail riding, snowmobiling, and camping.

Joe Honner is a Water Senior Project Manager specializing in the design and project management of water treatment and water distribution projects in the upper Midwest. Joe has worked on several projects that incorporate membrane technology to treat Missouri River water for new water treatment facilities as well as expansion of existing facilities. Outside of work Joe enjoys spending time with his family, working on projects around the house, and supporting his children in all their activities.

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Danielle Luzinski

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Danielle Luzinski, PE, is a Statewide Surface Water Hydrologist with MDH. With a bachelor's of science in civil engineering from University of Virginia and a master's in water resources engineering from National University of Ireland, Galway, she is responsible for developing Source Water Assessments (SWA) for communities that source their drinking water from surface waterbodies statewide. These SWAs tie into the development of Surface Water Intake Protection Plans used in implementation and securing grant funding. She currently serves on the MN Section Board of Directors for the American Society of Civil Engineers (ASCE).

Meredith Quinn, Jacobs

Meredith.quinn@jacobs.com

Meredith Quinn, PE, is a Drinking Water Engineer with Jacobs in Grand Forks. She has been helping drinking water utilities provide safe and reliable water to their customers for 18 years, focusing all on phases of drinking water treatment projects from planning, through design, to commissioning.

Mohamed S. Gaber, UND

Mohamed.ali.4@und.edu

Mohamed Ali is a Ph.D. student in the Department of Civil Engineering at the University of North Dakota, where he joined in Spring 2024. His research focuses on electrooxidation processes to control Per- and polyfluorinated alkyl substances in environmental matrices. He earned his master's degree in Inorganic Chemistry from Helwan University, Cairo, Egypt. He was later awarded a fellowship by the United States Agency for International Development (USAID), allowing him to conduct research as an exchange scholar at the School of Sustainable Engineering and the Built Environment at Arizona State University.

Jordan Grasser, AE2S

Jordan.grasser@ae2s.com

Jordan Grasser, PE, graduated with a B.S and M.S in Chemical Engineering from the University of North Dakota. He brings 15 years of experience with AE2S both designing and managing ground and surface water treatment facilities up to 60 MGD. He specializes in both pressure and gravity filtration, lime softening, high- and low-pressure membranes, and chemical feed systems.

Kevin Young and Marc Pritchard, MPS

kbyoung@sehinc.com

Kevin Young, PE, is a Water Engineer and Project Manager at Short Elliott Hendrickson Inc. Kevin holds both a bachelor's and a master's degree in civil engineering from North Dakota State University. He is also a licensed Professional Engineer in Minnesota and Virginia and holds a Class A Water Operator license in Minnesota.

In his role, Kevin is responsible for overseeing various water engineering projects. His expertise includes project management, design, and implementation of water treatment systems. Kevin has been an AWWA member for more than 10 years and he recently served on the Minnesota AWWA Board as the Central District Trustee.

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Marc Pritchard is the Water Plant Manager at the Moorhead Public Service Water Division. Marc has a BA in Biology and Chemistry from Concordia College in Moorhead, MN. He oversees the operation, maintenance, and capital improvement of MPS Water Plant and finished water storage reservoirs; operational strategies for blending highly variable surface water with various groundwater chemistries for maximized quality and cost efficiency; softening, ozone disinfection, GAC biofiltration, and byproduct dewatering and source water protection and sustainable use of surface and groundwater sources, particularly for the Buffalo Aquifer. He has 12 years of in-house experience with MPS. Marc is a nine-year member of MN AWWA, Class A Operator in the state of MN, involved in Lake Agassiz Water Authority at the Technical Advisory Committee and Board level.

Jessica Adams-Weber, HDR

Jessica.adams-weber@hdrinc.com

Jessica Adams-Weber, PE, serves as a Regional Business Development Director for the North Central US. A Vice President at HDR, she brings design and construction experience in water and wastewater. Jessica has a bachelor's in civil engineering. She has extensive experience with collaborative delivery from Construction Manager At-Risk, Progressive Design-Build, and Fixed Price Design-Build as she has served in a variety of roles from Project Manager to Owner's Representative. She currently serves on the Board of Directors for the Water Collaborative Delivery Association. In her role with the Association, she is also supporting the development of CMAR contract templates for utilities for use nationwide.

THURSDAY, APRIL 24

George Kraynick, City of Minneapolis

George.kraynick@minneapolismn.gov

George Kraynick is the Water Quality Manager for the City of Minneapolis. He oversees the quality and quantity of water provided to over 400,000 customers in the metropolitan area. He is also an instructor for the Water Utilities Treatment Technology program at St. Paul College which offers a nontraditional path for students to obtain water and wastewater education and upon completion of the program, they can test for their D water and wastewater certifications.

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Shannon Fisher and Bryan Schmitt – NDDEQ

smfisher@nd.gov

Shannon Fisher, PE, is the Program Manager for the Drinking Water State Revolving Fund through the North Dakota Department of Environmental Quality. This program provides low-interest loans to public water systems within the state for drinking water infrastructure improvements. Shannon has a bachelor's degree in civil engineering from the University of Minnesota – Twin Cities and is a professional engineer licensed in North Dakota. She is a member of the American Water Works Association and the American Society of Civil Engineers.

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Bryan Schmitt, PE, is an Environmental Engineer with the North Dakota Department of Environmental Quality. He holds a Bachelor of Science degree in Environmental Resources Engineering from the California State Polytechnic University Humboldt and has over 10 years of experience in the drinking water field. Bryan is a professional engineer licensed in North Dakota and his areas of focus include the review of plans and specifications for surface water treatment plants and providing technical assistance to public water systems.

Tyler Fode, AE2S

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Tyler Fode, PE, is a Senior Project Engineer with AE2S. Besides his day-to-day responsibilities with AE2S, Tyler is a member of NSPE and AWWA.

Indran Kamalanathan, MDH

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Indran Kamalanathan, PE, is a Compliance Engineer for MDH. Indran has a BS in Chemical Engineering from the University of Arkansas and an MS in Environmental Engineering from the University of Illinois at Urbana-Champaign. Indran is responsible for ensuring rule compliance with the surface water, total coliform, disinfection byproduct, and groundwater rules for MDH as well as conducting surface water treatment plant sanitary surveys. Indran is a member of AWWA and represents MDH as part of the EPA's AWOP program.