

OFFICIAL BULLETIN

VOLUME 102

OCTOBER - DECEMBER 2014

NUMBERS 10-12

WINTER ISSUE

NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE

NDWPCC



**Consult with one of our
water specialists today.**

Experience Equals Results

Recognized water experts bring you:

- Capital improvement planning
- Preliminary infrastructure design
- Funding application preparation
- Geographic Information Systems (GIS)
- Final design, construction and project administration through completion
- Support after completion of the project

Contact us.

218-998-4041

mooreengineeringinc.com

consult@mooreengineeringinc.com

North Dakota – Minot • West Fargo **Minnesota** – Fergus Falls • Wadena



Editor
Justin Feld

Assistant Editor
KLJ

Business Manager
Patty Carman

Contributing Authors
Drinking Water Program Staff
Melanie K. Goetz, American Water Works Association and
Hughes and Stuart
Murthy Kasi, Moore Engineering
North Dakota Young Professionals Association

Photo Submissions
Murthy Kasi, Moore Engineering
Eric Dodds, AE₂S
Melanie K. Goetz, American Water Works Association and
Hughes and Stuart

If you are interested in submitting articles please contact the editor, Justin Feld at jfeld@nd.gov.

OFFICIAL BULLETIN

*Official Publication of the
North Dakota Water and Pollution Control Conference*

Winter Issue

Established 1935

VOL. 102

October-December 2014

NOS. 10-12

PRESIDENT - Dan Jonasson

PRESIDENT-ELECT - Seth Lynne

VICE PRESIDENT - Joe Ferguson

DIRECTORS - Tracy Eslinger, Mike Berg, Wei Lin, Sarah Volk

ASSOCIATE DIRECTOR - Jim Lennington

SECRETARY-TREASURER - Mike Brisben

INDEX TO ADVERTISERS

The services and products of the following represented firms are deserving of your best consideration.

| FIRM | PAGE |
|---|------------------------|
| Ackerman Estvold | 57, 66 |
| AE ₂ S..... | 25, 63 |
| Apex Engineering..... | 46, back cover |
| Bartlett & West..... | 61 |
| Bolton & Menk..... | 48, 53 |
| Brock White | 52, 70 |
| Dakota Supply Group | 21, 39 |
| Electric Pump | 58 |
| Energy Labs..... | 56 |
| Engineering America | 17, 34 |
| Ess Brothers & Sons, Inc..... | 35, 40 |
| Ford Meter Box..... | 44 |
| Hawkins Water Treatment Group | 14 |
| HD Supply | 7, 65 |
| Houston Engineering..... | 27, 59 |
| Hughes Lift Station Services | 47 |
| Interstate Engineering | 43 |
| Jet-Way Services..... | 41, 55 |
| KLJ | 23, 49 |
| Moore..... | inside front cover, 54 |
| MVTL Labs | 62 |
| ND Sewage Pump & Lift Station Service | 19, 54 |
| Ovivo | 10, 60 |
| Paxxo | 47, inside back cover |
| SEH | 8 |
| S. Roberts Company..... | 46 |
| Stantec | 45 |
| Team Lab | 12, 51 |
| Thein Well | 67 |
| Wideth Smith Nolting..... | 18 |
| Wold Engineering..... | 50 |

Members of the conference are indebted to those members and others who have contributed articles and other materials for this publication.

CONFERENCE BUSINESS PHONE:

701-328-6622

The advertising contained in the *Official Bulletin* describes the products and services offered by companies in the water and wastewater industries. The listings are paid advertising. The publishers of the *Official Bulletin*, members of the North Dakota Water and Pollution Control Conference and the water and wastewater organizations that support its publication are not responsible for the accuracy of the advertisements nor any claims made therein.

TABLE OF CONTENTS

| SUBJECT | PAGE |
|---|------|
| Southwest Water: Quenching the Thirst of a Developing Area | 2 |
| 2014 Conference Photos | 6 |
| Planning in Advance for Public Notification..... | 8 |
| Rural Water Expo 2015 | 9 |
| 2014 Projects of the Year Awards..... | 11 |
| Minutes of the 86th Annual Meeting of the North Dakota Water and Pollution Control Conference..... | 13 |
| Operator of the Year | 20 |
| Past Recipients: Operator of the Year Awards..... | 21 |
| Annual Operator Training Program..... | 24 |
| Annual Operator Training Registration..... | 26 |
| Young Professional at the 2014 North Dakota Water and Polution Control Conference | 28 |
| Young Professionals Poster Contest Winners: First Place..... | 29 |
| Young Professionals Poster Contest Winners: Second Place | 30 |
| Young Professionals Poster Contest Winners: Third Place..... | 32 |
| Getting to Know the Chair of the North Dakota Young Professionals | 34 |
| Conference Sponsors for Door Prizes, Social Hour, Coffee Breaks and Golf Tournament | 37 |
| Water for the People Sponsors | 38 |
| Arthur Sidney Bedell Award | 40 |
| Young Professional of the Year | 40 |
| 2014 Conference Exhibitor List | 42 |
| George Warren Fuller Award | 45 |
| North Dakota Water and Pollution Control Conference 2014 Resolutions | 46 |
| Conference Attendance List..... | 49 |
| Operators Pass Certification Exams | 64 |
| Best Tasting Water..... | 65 |
| Herkimer Cartoon..... | 67 |
| 2014 Conference Photos | 68 |
| NDWPCC Stormwater Workshop..... | 71 |
| Program Directories | 72 |

Article II of the Constitution of the North Dakota Water and Pollution Control Conference

The objectives of this Conference shall be: the advancement of the knowledge of design, construction, operation and management of water, wastewater systems, and stormwater systems; the promotion and encouragement, through annual meetings or otherwise, of an exchange of information and experience among its membership; the promotion and encouragement of the protection of public health and improved environment through the construction and efficient operation of water supply, wastewater treatment facilities and stormwater treatment; and the promotion of water, wastewater, and stormwater system operator education and certification programs.

On the cover: Aerial Veiw of Lake Sakakawea. Photo provided by Melanie K. Goetz.

Southwest Water: Quenching the Thirst of a Developing Area

By Melanie K. Goetz, American Water Works Association and Hughes and Stuart

“Without quality water, the communities in southwest North Dakota would be limited in their growth and would not be able to meet the needs of the increase in population from oil and gas development. It would be complete turmoil! The Southwest Water Authority is responsible for the vision to provide the quantity and quality of water needed for southwest North Dakota to meet the needs of our growing communities.”

-Senator Rich Wardner

of water because its value depends on a wide array of dimensions — the volume of water supplied, where and when it's supplied, the reliability of the source and, of course, the intrinsic quality of the water and its suitability to the application. Complicating these calculations is the uncertain reliability of tools needed to measure these variables — even if those tools are available and affordable.

Still, economists almost universally agree that water is critical to any economy ... even if they can't always affix a number to it.

North Dakotans, especially those in rural areas, look at water differently than perhaps those people living elsewhere in America. With less than a million people, North Dakota is probably the most rural of the 50 states: Nine out of every 10 acres is farmland. And North Dakota

Water is essential to any economy — and to life itself. Macroeconomic analyses reveal the direct connection between water and economic success, particularly driving agriculture, utilities, mining and energy production. But every sector of every economy, from local to the global, fundamentally relies on water resources. And inevitably, any interruption in the supply of water pulses through an economy like wind rippling across a North Dakota wheat field.

In short, water is money.

The EPA says it's hard to gauge the economic impact

ranks first in U.S. production of spring and durum wheat. And despite the oil and gas influx, agriculture is still the state's #1 industry — one that requires quality water, and lots of it. It also must take into account the people, the very ones that make this northern state work.

Fortunately, North Dakota has plenty of surface water sourced from the Missouri River, but the groundwater can be undrinkable. Anyone familiar with the groundwater in southwest North Dakota knows all too well it's often full of minerals, often to an extent making it unsafe for human consumption. Even livestock shy away from the ubiquitous contaminated well water. Farmers find it less than desirable for irrigation. But there's no stopping the resilient rural folk of southwest ND who have for decades hauled purified water into their homes for drinking and cooking.



Trenching pipe to further extend Southwest Water's distribution.

History of the Southwest Pipeline Project and Southwest Water Authority

In 1981, North Dakota's legislature authorized the initial design of today's Southwest Pipeline Project (SWPP). The SWPP was initially designed to accommodate 150 percent of the average annual flow rate of all but two of its cities, and 150 percent of all rural users within the project area for final design and construction. The project area included the area of North Dakota south and west of the Missouri River. (See project map.) The original project was intended to be a wholesale water supply system, only serving entities under contracts — communities, rural water systems, rural water cooperatives, industries and the like. The SWPP was never intended to provide direct service to individuals.

By 1985, the final design for the SWPP was completed, and construction began on the first contract the following spring. The North Dakota State Water Commission owns the project and manages construction contracts. Later, planners determined contract service to rural water systems could be provided more efficiently if their configuration was integrated into the overall project design. So, in 1991, the Legislative Assembly modified the project concept, empowering the State's Water Commission to integrate the project and to create the Southwest Water Authority (SWA). The newly created the SWA was tasked with collecting and coordinating rural signups, rural easements, providing customer service for rural water customers and collecting signup fees. In 1996, SWA was given specific authority to operate, manage and maintain the SWPP as an agent of the State Water Commission.

Thus, forward-thinking forefathers recognized the economic power of life-giving waters, and in piping high quality water to the residents and businesses driving southwest North Dakota's economic development. Mary Massad, Manager/CEO of Southwest Water Authority and the person who oversees the massive project, says, "The population growth, extremely low unemployment, and new business development has put ND on the national map as the up-and-coming boom state. The SWPP's water makes it all work."

The Microeconomics of Water

That's the big picture. But equally compelling is a microeconomic look at the people who drive the number one, income-producing sector of North Dakota's economy – the people of the state's rural southwest.

Let me introduce you to the Knoells. For almost three decades, Karen and Jerry Knoell of Hazen, North Dakota, were buying five to six gallons of bottled water for their weekly drinking and cooking needs. Their well drew brackish, brown water laced with sodium and magnesium. Not so tasty. Not so healthy. They limited their well water use to washing dishes and showering. They financed the drilling of a second well, but it proved to have a very low water table and was not usable.

Jerry and Karen had been changing their home fixtures about every 10 years. High mineral deposits from the well water corroded the bathtubs, sinks and the water heater. Then, in 2013, the Knoells were connected to the Southwest Pipeline Project. From the first day they turned on the tap, their lives changed for the better. The Knoells, like so many other rural residents, believed SWA would eventually be their solution. And, it was.

"This water is a blessing," said Karen, "Everyone loves it. I'm so happy to have it. I've carried all my white clothes and all my laundry to the cleaners for years." But no more. And beyond the welcome lifestyle changes, high quality water is also saving them money on appliances, energy, travel, plumbing — virtually every aspect of the Knoells' lives.

Then there are the Knopiks. For nearly 10 years, southwest North Dakota residents Chris and Traci Knopik had to deal with orange-colored well water. Their bathtub, sinks, toilets were all stained brown, though not for lack of cleaning products or effort. White or light-colored clothes and linens were victimized. When cows won't drink your water, that's more than a clue. Nothing could successfully take the brown out of the water that came up from the two wells on their property. They hauled bottled water to their home just like other rural residents had been doing for years.



Construction of more water storage to meet growing demands.

The 250 range cows Chris used to maintain with his father didn't much care for the water, and they often simply refused to drink. But, the SWPP had not yet been connected in the area, and a third well was drilled. The water was still brown.

"Better suited for ice tea or coffee," says Chris.

One day, Chris and Traci traveled abroad to become parents, adopting two daughters from India and Ethiopia. On their journeys outside of the United States, the Knopiks discovered places much worse water quality conditions exist, even than on the plains of rural North Dakota. The reality of truly unsanitary water conditions brought a whole new perspective. Chris observed Ethiopians walking miles every day to haul unfiltered water from the same muddy streams where the cattle drank.

Finally, in 2014, the Knopiks became the first property owners in their rural community of about 2,500 to receive treated water from the pipeline ... and they were very excited to receive it.

“This water is similar to bottled spring water,” Chris said. It’s clear, it tastes great, it doesn’t stain anything. We have constant pressure flow, compared to a well kicking in and out, so we really appreciate knowing we will always have a high quality water supply from now on.”



Inside look at the construction of the water storage tank.

By 2014, about 4,300 additional miles of pipeline had been added, with nearly on 5,500 rural water customers poised to consume an estimated 2.5 billion gallons of SWA water in 2014. Naturally, that number is expected to increase. To date, SWA serves more than 58,000 southwest North Dakota residents in 32 communities with more than 5,350 farms, ranches, small businesses, 28 contract customers, 23 raw water customers, three crew camps, and two raw water depots for the oil and gas industry, and two other rural water systems. That translates into more than 2.3 billion gallons of quality water annually and growing.

Ms. Massad notes, “A high-profile, high-demand project such as the SWPP will eventually be completed, but our job here at Southwest Water Authority to manage operate and maintain the project will never be done. That’s because we must maintain and continue to implement the ND Department of Health and Environmental Protection Agency’s stringent drinking water standards, as well as continue to connect those who are still patiently waiting to receive quality water. It’s not just a matter of the economic development of the southwest region, it’s a matter of the overall economics of our region and the entire state.”

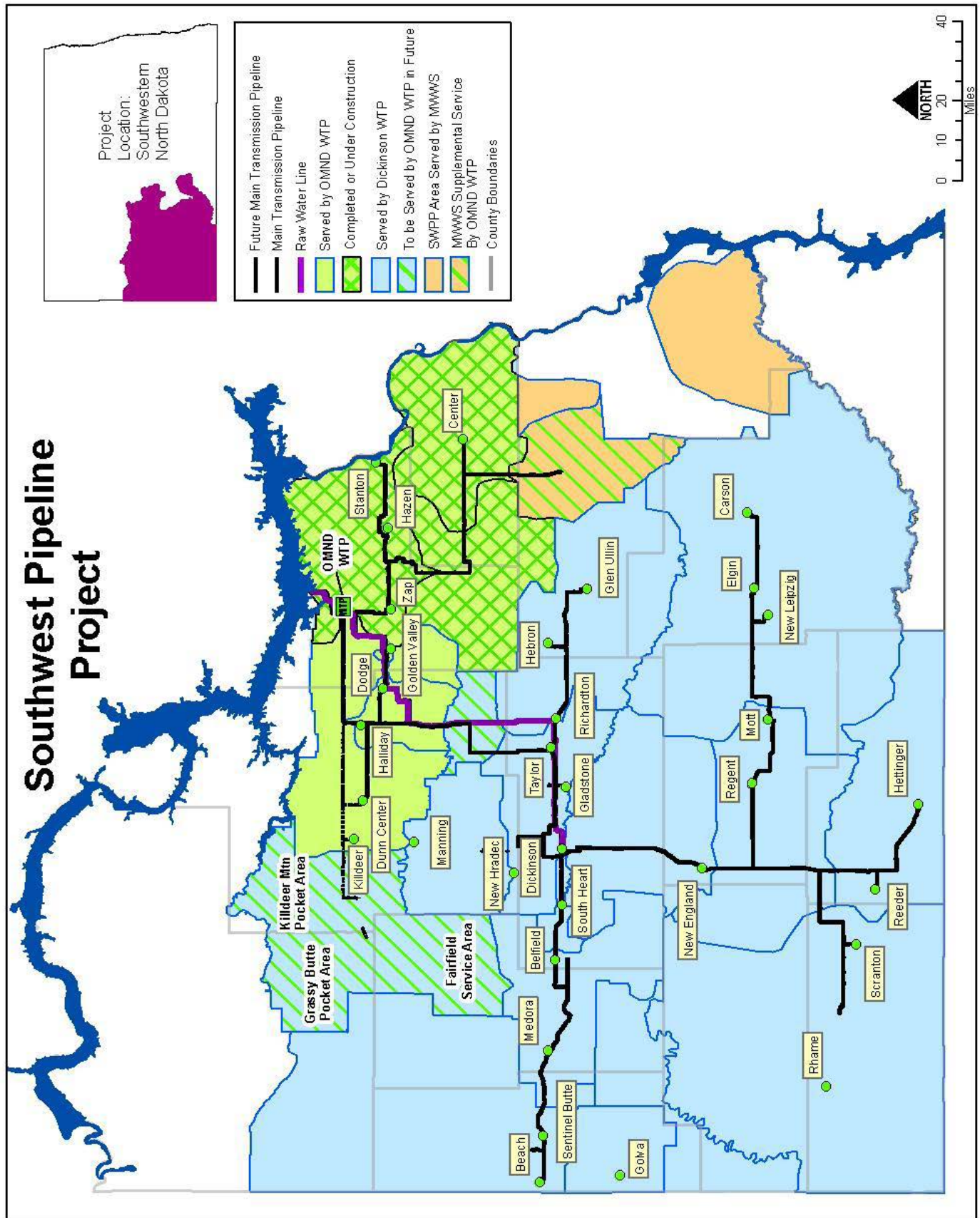
On a global, national, or state level, as with the Southwest Pipeline Project, the reality is that the value of water is essential to a thriving economy. People’s lives are literally transformed daily by the power of the SWPP water supply engine. Economic forecasts for North Dakota anticipate the state will thrive for many years to come due to water projects such as the SWPP – with or without the oil and gas boom.

Resources

World Resource Institute, www.wri.org, August 2014.
Environmental Protection Agency, U.S. website: http://water.epa.gov/action/importanceofwater/upload/IOW_Synthesis_Highlights, September 2014.
Southwest Water Authority website: <http://SWwater.org>, October, 2014.
Interview with Knopiks - September, 2013
Interview with Knoells – October, 2013
Interview with Mary Massad, Manager/CEO of the Southwest Water Authority - October 2014.
Quote from Senator Rich Wardner – October 31, 2014

About Melanie K. Goetz

Author of *Communicating Water’s Value: Talking Points, Tips & Strategies*; Melanie specializes in helping utilities effectively communicate with their customers, elected officials, boards and stakeholders. With more than three decades of public relations experience, she has been a driving force behind community-supported rate increases, effective strategic marketing, public education, and award-winning outreach campaigns that changed behaviors. Melanie is an ongoing contributor to the *Journal American Water Works*, speaks internationally, has served on utility boards, and holds an MBA from Old Dominion University, Va.



Current service area and upcoming service areas for Southwest Water Authority in southwestern North Dakota

2014 Conference Photos

Thanks for attending



CONTINUED GROWTH IN NORTH DAKOTA



Pipe Products:

- Ductile Iron Pipe
- PVC Sewer and Water Pipe
- High Density Polyethylene (HDPE) Pipe
- HDPE Duct for Communications & Electrical
- PVC Pipe & Duct
- Copper Water Service Pipe
- Corrugated HDPE Drainage Pipe
- Concrete Pipe and Manholes
- Corrugated Metal Pipe
- Geotextiles
- Geogrid

Other Products & Services:

- Valves - Gate, Plug, Butterfly, Check, Air Release
- Fire Hydrants
- McElroy HDPE Pipe Fusion Machine Sales & Rental
- Electrofusion Fittings and Machine Sales
- HDPE Fusible Pulling Heads and Threaded Transition Fittings

Jason Berg

Outside Sales Representative

407 72nd Street, SE
Minot, ND 58701

jason.berg@hdsupply.com

Phone: 701-852-6878
Fax: 701-852-6817
Mobile: 701-500-5016



Local Knowledge
Local Experience
Local Service, Nationwide®

HDSUPPLY®
WATERWORKS

Planning in Advance for Public Notification

LeeAnn Tillotson, Environmental Scientist, North Dakota Department of Health

Public notification is designed to protect public health. As a public water supplier, you are required by law to prepare and distribute public notification to consumers in the event of a drinking water violation. Other situations such as the flooding of a well, loss of pressure to the distribution system due to maintenance or breakage, and certain exceedances of the nitrate MCL in non community systems are a few examples of situations requiring public notice in the absence of an actual violation.

One of the best ways water systems can contribute to community health is to make sure people within a service area know about water quality issues and how to protect themselves from potential risks. Public notification of drinking water violations and other specific situations provides a way to educate the public, protect public health, build trust with consumers through sharing of information and establish an ongoing, positive relationship with your community. The greater the effort your water system makes to reach and inform everyone in your service area, the more they will trust your commitment to delivering safe water and protecting public health.

When a public water system receives a drinking water

violation, a public notice template is included in the violation letter from the North Dakota Department of Health Drinking Water Program. The template includes all mandatory statements and required language necessary to inform consumers about the situation that occurred. The mandatory statements and required language must not be changed or omitted without prior approval from the Drinking Water Program. The template does provide additional areas for the public water system to describe the event and the corrective actions that are planned or have taken place. Local contact information must also be inserted into the public notice to ensure that consumers questions are answered in a timely manner.

Public notification must be performed within a predetermined timeframe depending on the seriousness of the violation or situation. The timeframe may be as short as 24 hours for the most serious violations and up to a year in other circumstances. The required public notification timeframe is always clearly stated in the violation letter or other correspondence from the Drinking Water Program.



Building a Better World for All of Us[®]

SERVICES

Architecture
Civil Engineering
Environmental
Planning
Stormwater
Transportation
Wastewater
Water

North Dakota:

Bismarck

Minnesota:

Brainerd, Duluth, Grand Rapids,
Hutchinson, Mankato, Minnetonka,
St. Cloud, St. Paul, Virginia, and
Worthington

South Dakota:

Sioux Falls

Wisconsin:

Appleton, Chippewa Falls, La Crosse,
Madison, Milwaukee, New Richmond,
Rice Lake, and Sheboygan

sehinc.com

Engineers | Architects | Planners | Scientists



Due to the short amount of time allowed to accomplish public notification in some situations, it makes good sense to do some advanced planning to allow accurate information to be distributed to affected consumers in an efficient and less stressful manner.

Prior to any situation that may require notification of the public an effort should be made to develop a plan that will be used to accomplish the task. Thought must be given to those who would best be able to help in the event of a drinking water violation or public water situation. This team will include individuals within the public water system administration office and the primacy agency (Drinking Water Program) and may include the local health department, emergency managers, printers or copying services, the media (newspaper, television and radio), and possibly alternative water suppliers.

Convey to all members of the team what actions may be necessary to complete public notification on short notice if it becomes necessary. Streamline your communication plan in advance by forming a relationship with the local media. Make sure your bottled water supplier understands your emergency plan and has its own plan for providing you with adequate quantities of water on short notice.

If your public water system sells water to consecutive users, you will want to have a discussion about how public notification will be accomplished prior to an event that requires notification of all users. The discussion should include whether you as the wholesaler will be responsible for notifying all users, or whether consecutive users will assist with the notification of consumers in their area of the distribution system.

In addition, consider in advance how follow-up information will be provided to consumers during correction of problems and perhaps again after the situation is resolved.

Providing additional information will demonstrate your system's commitment to public health.

Situations requiring public notice very often occur without warning. So, consider taking full advantage of the time that is available when all is going well. A bit of pre-planning for unexpected circumstances may ensure that correct and helpful information regarding drinking water situations and their resolution are distributed to the public efficiently and without delay. Any portion of a plan prepared now can prevent the additional burden of planning all aspects of a public notification during an actual unexpected event.

For further information regarding public notification pre-planning, please contact LeeAnn Tillotson at 701-328-5293.

Save the Date



29th Annual Rural Water Expo
February 11-13, 2015
Bismarck, ND

**Earn up to 8 CEU's towards your operator certification
while obtaining a technical, hands-on experience!**

Best Western Ramkota Hotel
Reservations: 701-258-7700
A block of rooms has been reserved under Rural Water.



2718 Gateway Ave #201
Bismarck, ND 58503
Phone: 1-800-349-6951
E-mail: ndrw@ndrw.org
Website: www.ndrw.org



Ready-To-Operate

microBLOX™ Membrane Bioreactor (MBR) systems are fully functional, ready-to-operate, wastewater treatment solutions designed to be extremely simple to operate and maintain

Ideally suited to a wide range of applications including:

oil field man camps, pump and haul, retrofits, remote sites, lodging, residential housing developments, and more.

Each system can be guaranteed to meet the most stringent resale/reuse limits required by oil fracking companies or other State/EPA mandated requirements for reuse/recycle water quality limits.

Key Features and Benefits

- Treat flows from 3,500 to 250,000 GPD with high loading capability
- Ready-to-Operate, deployable package plant
- Effluent can be sold/used as fracking water
- 12 week delivery
- Owner financing and rentals available
- Sludge hauling cost reduced by up to 80%
- Smallest footprint on the market



Ovivo Contact:

Kimberly Mathis
512-834-6035
kimberly.mathis@ovivowater.com



Represented by:

Matt Fritze
Great Northern Environmental
615-289-9100
mfritze@gnenv.com

2014 Projects of the Year Awards

Presented by North Dakota American Public Works Association Chapter

The N.D. Chapter of the American Public Works Association is soliciting nominations for the “2015 Project of the Year” Awards.

Eligible are any public works project defined as the physical structures and facilities that are developed, owned, and maintained by public agencies to provide water, power, waste disposal, transportation, and similar public services in accordance with established public policy.

Criteria to be used in the selection process include demonstrating good construction techniques, safety, community relations, protecting the environment, unusual accomplishments, and additional conditions deemed important to the public works agency.

Award recipients and their engineer will receive an APWA “Project of the Year” recognition plaque presented at the Banquet of the N.D. Water and Pollution Control Conference scheduled to be held in Bismarck on October 7, 2015. Each project is eligible for nomination for the National APWA “Public Works - Project of the Year” competition. An award will be presented to projects serving communities of less than 5,000 and to communities serving more than 5,000 people. Nominations are due by May 4, 2015.

Submissions for consideration or questions concerning nominations should be addressed to:

Lance Meyer, PE
City of Minot
PO Box 5006
Minot, ND 58702-5006
701-857-4100 lance.meyer@minotnd.org



Karla Olson of Apex and Gary Zuroff of Dickinson

Because of rapid growth due to the current oil activity in the Dickinson area, the existing wastewater treatment facility was nearing its design hydraulic and organic loading capabilities. Alternative studies provided by Apex Engineering Group determined it was clear the best fit for the city was a mechanical treatment facility to provide flexibility for expansion and reliable treatment to meet stringent effluent discharge limits. The new, state-of-the-art, wastewater treatment and water reclamation facility will provide crucial infrastructure necessary for the treatment of wastewater for the existing and future population, not only within the city but also surrounding areas.



Wayne Gerszewski of AE₂S and James Anderson of Hillsboro

The City of Hillsboro, the City of Mayville, and Trail Rural Water District (TRWD) each found their respective water utilities facing challenges associated with water quantity and quality. With the help of Advanced Engineering and Environmental Services Inc., a strategic solution was developed for the City of Hillsboro to enter into a Joint Powers Agreement (JPA) with the City of Mayville and TRWD. The JPA allowed the three entities to remain autonomous while entering into a written agreement that contains an operational structure, identified responsibilities, and a financial agreement that benefits each entity. By working together to solve their varying challenges using a regional water concept and associated JPD, the three project entities were able to successfully acquire state and Federal grant dollars to pay for 75 percent of the total project cost.



Since 1977 Team Laboratory Chemical Corp. has responded to the needs of operators in the wastewater industry with its TeamTreat™ lineup of products. The TeamTreat™ program was developed as both a problem-solving and preventative maintenance program. TeamTreat™ will enable your entire wastewater system, from collection to treatment, to operate at maximum efficiency.

SLUDGE REDUCTION PROGRAMS



FROM THIS...



...TO THIS!

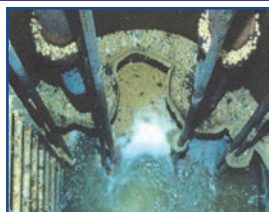


FROM THIS...



...TO THIS!

GREASE CONTROL PROGRAMS

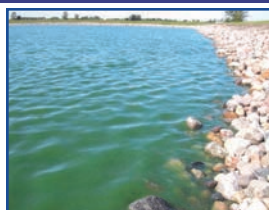


FROM THIS...



...TO THIS!

AQUATIC PLANT MANAGEMENT PROGRAMS



FROM THIS...



...TO THIS!

Solving your everyday wastewater problems with
“INNOVATIVE SOLUTIONS”!



TEAM LABORATORY CHEMICAL CORP.
Phone: 800-522-8326 * Web: www.teamlab.net
Email: sales@teamlab.net

Minutes of the 86th Annual Meeting of the North Dakota Water and Pollution Control Conference

The 86th Annual Meeting of the North Dakota Water and Pollution Control Conference (NDWPCC) was held October 14, 15, and 16, 2014 at the Holiday Inn, Fargo, North Dakota. The annual meeting/convention was held jointly with the North Dakota Chapter of the American Public Works Association (NDCAPWA), the North Dakota Water Environment Association (NDWEA), the North Dakota Section of the American Water Works Association (NDAWWA) and the North Dakota Chapter of the North American Stormwater and Erosion Control Association (NDSECA-ND).

The city of Fargo sponsored a pre-conference Confined Space Safety Training workshop Monday, October 13, 2014, from 9:00 a.m. to 3:00 p.m. at the Fargo Public Safety Building and tours of Fargo Public Works and the Regional Drinking Water Storage and Pumping Facility at 2:00 p.m. The NDAWWA Education and Research Committee held a pre-conference meeting at 3:00 p.m. Monday in the Conference Room of the Holiday Inn. A service project at Rabanus Park was also scheduled from 4:00 p.m. to 7:00 p.m. on Monday.

Board meetings were held Tuesday, October 14, 2014 by NDAWWA at 7:30 a.m. in the Frontier Room, NDCAPWA at 8:00 a.m. in the Embassy A Room, NDWEA at 8:00 a.m. in the Embassy B Room, and NASECA-ND at 8:00 a.m. in the Prairie Room. Additional NDAWWA meetings were held following the joint board meeting. During the Tuesday meetings, the associations planned their business meetings, listened to committee reports, accepted volunteers for committees, and conducted other business, as needed. Association business meetings were held Tuesday, October 14 (NDAWWA), Wednesday, October 15 (NDWEA), and Thursday, October 16 (NDCAPWA and NDWPCC).

North Dakota Department of Health (NDDOH) operator certification exams were written Tuesday, October 14, 2014, from 7:30 a.m. to 11:30 a.m. in the Conference Room. The North Dakota Nutrient Reduction Strategy Point Source Workgroup meeting was held from 8:30 a.m. to 11:30 a.m. in the Director's Room. pH certification training was held from 9:00 a.m. to 11:00 a.m. in the Mezzanine Suite III. Registration opened at 8:00 a.m., Tuesday, October 14, 2014, with Patty Carman and Darlene Germain welcoming all attendees. A total of 420 pre-registered, with final attendance being 419.

The joint board of directors of the NDWPCC, NDCAPWA, NDWEA, NDAWWA, and NASECA-ND met at 9:30 a.m. Tuesday, October 14, 2014 in the Executive Room with NDWPCC President Dean Sletten calling the meeting to order at 9:36 a.m. The following board members and guests were in attendance: Mike Berg, Terry Boehm, Mike Brisben, Dustin Dale, Eric Dodds, Joe Ferguson, Rick Gillund, Fred Goetz, Jordan Grasser, Jeff Heintz, Jeff Hruby, Dan Jonnason, Barry Johnson, Murthy Kasi, Brenda Lennox, Wei Lin, Seth Lynne, Lance Meyer, Karla Olson, Melanie Parvey, Derrick Placek, Michael Quamme, Meredith Quinn, Dean Sletten, Matt Sperry, Deon Stockert, Larry Thelen, Greg Wavra, Adam Zach, Chad Zander, and Gary Zuroff.

President Sletten entertained a motion to dispense with reading of the minutes from the May 22, 2014 joint board meeting at the Seven Seas Hotel in Mandan and approve the minutes mailed to board members and published in the 2014 Conference issue of the *Official Bulletin*. Eric Dodds so moved. Dan Jonasson seconded, and the motion carried.

President Sletten called for the treasurer's report. Mike Brisben read the January 1, 2014 to September 30, 2014 NDWPCC financial report, which showed a net income of \$36,869.50 and total assets of \$136,760.88. President Sletten asked for any discussion. Jeff Heintz inquired about the large amount of undeposited funds. Mr. Brisben noted that the undeposited funds included the conference's PayPal account and registration fees that will be deposited after the annual meeting. President Sletten asked for any further discussion. Hearing none, President Sletten called for a motion to approve the financial report. Joe Ferguson so moved. Rick Gillund seconded; motion carried.

Next, President Sletten called for old business. Mr. Brisben reported that tentative dates had been reserved in 2016 at the Minot Holiday Inn should the joint boards choose to move the 2016 meeting from the Grand International. Michael Quamme asked how many rooms were available at the Holiday Inn. Mr. Brisben indicated there were 170 rooms and that he hoped to secure 125, and that he would look to reserve additional rooms throughout Minot. Lance Meyer noted that the convention center and food were superior at the Holiday Inn and moved to reserve the same dates in 2016. Eric Dodds seconded; motion carried.

Next, President Sletten asked for an update on tentative dates for 2019 in Bismarck. Mr. Brisben stated there currently were no changes and that he would know more in 2015. Mr. Brisben also noted that he preferred the Wednesday, Thursday, Friday venue if nothing changes.

Continuing with old business, President Sletten called for a report on the AWWA YP poster competition. Murthy Kasi reported there were six volunteers to be judges, and there would be nine posters. Mr. Kasi noted that the competition would be from 9:00 a.m. to 12:00 noon on Wednesday and that awards would be for the best water poster, the best wastewater poster, and the best overall poster. Wei Lin asked if competitors needed to be members of AWWA and WEF. Meredith Quinn noted that, for the drinking water track, membership was required to compete in the national competition and that she would provide AWWA membership forms on Wednesday.

President Sletten called for any other old business. Mr. Brisben asked that the joint boards consider an independent website for the conference. Ms. Quinn indicated that costs to maintain NDAWWA's website were approximately \$200 and asked if a joint website would be possible. Mr. Quamme noted that a separate website would be more functional. Ms. Quinn stated that Sarah Volk works with the NDAWWA website and would be a good resource. President Sletten tabled further discussion until January 2015 and asked to set up a committee to look into the website. Murthy Kasi, Michael Quamme, and Grey Wavra agreed to serve on the website committee.

Moving to new business, President Sletten asked for volunteers for the officers nominating committee. Mike Berg, Joe Ferguson, and Wei Lin agreed to announce the 2014/2015 slate of officers during the October 16, 2014 business meeting. Next, President Sletten asked for volunteers for the auditing committee. Mike Berg, Joe Ferguson, and Rick Gillund agreed to review the 2014 NDWPCC financial report prior to the January 2015 joint board meeting.


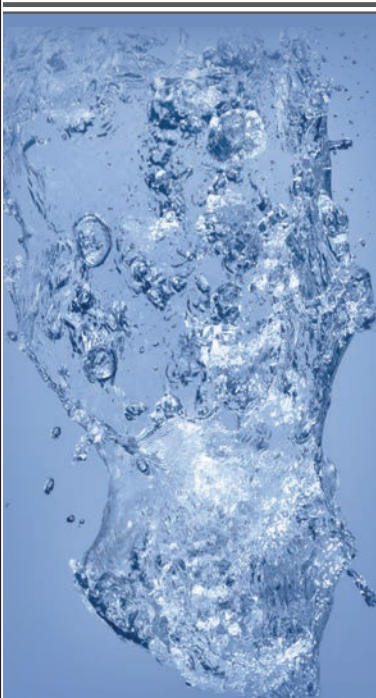
Next, President Sletten nominated Pete Bilstad and Ray Peterson from the city of Fargo for life membership and called for any other nominations. Dan Jonasson nominated Rodney Arness from Minot. Mr. Brisben noted that life membership will be voted on during the Thursday business meeting.

Mr. Brisben reported on 2014 conference activities which included a pre-conference safety workshop, NDWPCC service project, the annual golf tournament, facility tours, three concurrent sessions, breakfast poker, the exhibitor

program, and the awards banquet.

Next, President Sletten asked that attendees consider topics for 2015 spring training and the 2015 fall conference, and he asked that local arrangements discuss ideas for the Bismarck conference. Eric Dodds reported that the service project was a success, planting 56 trees and 75 shrubs. Mr. Dodds also noted that the planning committee featured 12 students and a handful of Young Professionals who worked with the Fargo Planning and Forestry Departments.

President Sletten called for any other new business. Mr. Kasi asked that the young professional committee meeting be added to the agenda and that a "Young Professional of the Year" award be presented out during the banquet. The YP of the year award has two nominees that are reviewed by five judges. Mr. Quamme asked that the conference cover the \$59 plague and \$25 set up fee. Ms. Quinn and Gary Zuroff indicated they thought the costs were, reasonable requests. Mr. Brisben brought to the board's attention that the Seven Seas no longer offered a lunch menu. President Sletten asked Mr. Brisben to check alternatives for the January meeting.

| | |
|--|--|
| <h2>Water Treatment is Our Business</h2> |  |
|  | <p>Hawkins Water Treatment Group has been meeting the requirements of commercial, industrial, municipal and institutional organizations since 1938.</p> <p>Fargo, ND 701-293-9618</p> <p>Washburn, ND 701-462-8588</p> |

President Sletten called for a motion to close the meeting. Dan Jonasson so moved. Murthy Kasi seconded, and the meeting adjourned at 10:15 a.m.

Water samples for the 23rd annual water taste test, sponsored by NDAWWA, were accepted throughout the day Tuesday with nine public water systems entering. The Tuesday luncheon and NDAWWA business meeting were held in the Sterling and Crowne Rooms with NDAWWA Chair Jason Sorenson presiding. Fargo Deputy Mayor Dr. Tim Mahoney welcomed all attendees on behalf of the city, and Jessica Wagner, President, NDWEA, welcomed all on behalf of the joint board of directors. Brenda Lennox, Vice President, AWWA, provided an overview of AWWA activities.

The annual golf tournament teed off at 1:00 p.m. at the Village Green Golf Course in Moorhead, Minn. with Tom Welle handling local arrangements.

The Tuesday afternoon concurrent sessions opened at 1:30 p.m. with Michael Quamme, Associate Director, NDWPCC; Melanie Parvey, Secretary, NASECA-ND; and Dustin Scott, Director, NDCAPWA, moderating. The three concurrent sessions were held in Dakota Hall and Harvest Hall of the Holiday Inn.

Tuesday's topics included:

- "Minot Water Treatment Plant Hazard Mitigation Project" - Jerry Bents, Flood Control Design Lead and Allan Kemmit, Water Treatment Design Lead, Houston Engineering.
- "Well Failure and Repair" - Richard Wagner, AE₂S.
- "Algae Blooms and the Hazards of Cyanobacterial Toxins" - Mike Trythall, Environmental Scientist, NDDOH.
- "Evaluation and Maintenance Techniques for Water Storage Facilities" - Doug Klamerus, NACE Level 2 Certified Coatings Inspector, and James Connor, NACE Level 3 Certified Coatings Inspector, Bolton & Menk, Inc.
- "Water Quality BMPs" - Jeff Hruby, Water Resources Practice Leader, AE₂S, and Abbie Beaudry, Graduate Student, UND.
- "Omaha District Regulatory Briefing - Clean Water Act Jurisdiction" - Patsy Crooke, Project Manager, U.S. Army Corps of Engineers.
- "West Fargo Wastewater Treatment Regionalization" - Eric Mattern, Jay Miller, Mitchell Swanson, and Kellen Grubb, NDSU AWWA/WEF Student Chapter.
- "Lake Kampeska Phosphorus Removal Demonstration Project" - Steve Quail, Senior Project Engineer, HDR Engineering, Inc.

- "Fargo-Moorhead Area Diversion Project Update" - April Water, City Engineer, City of Fargo and Eric Dodds, Operations Manager, AE₂S.
- "Making the Fargo Effluent Reuse Facility Run" - Jeff Hoff, System Control Manager, City of Fargo.
- "Bringing Your City Maps into the 21st Century" - Amanda Kieffer, Engineer, and John Wirries, Engineer, KLJ.
- "Uncovering the Myths, Mayhem, and Magic of Storm Water Retention Ponds" - Brock Storrusten, Branch Manager, Moore Engineering, Inc.

The 3:00 p.m. break was held on the Pool Patio with all breaks sponsored by the business firms, vendors, and commercial suppliers listed in the program and on the poster located next to the registration table. A Tuesday night Student/YP reception was held at Buffalo Wild Wings from 6:00 p.m. to 8:00 p.m., and a Tuesday night buffet was held on the Pool Patio from 5:30 p.m. to 7:30 p.m.

Early setup for the 26th annual exhibitor program was from 4:00 p.m. to 10:00 p.m. on Tuesday in the Great Hall. Late setup was from 7:00 a.m. to 7:30 a.m. on Wednesday, October 15, 2014. Display hours were from 7:30 a.m. to 11:30 a.m., with 67 firms/suppliers reserving 78 booths. A buffet breakfast sponsored by the exhibitors was held in the Great Hall and on the Pool Patio from 8:00 a.m. to 10:00 a.m., along with a breakfast buffet poker game.

Poker hands were turned in at the NDWEA booth, with the winners announced at the Wednesday NDWEA luncheon and business meeting. Poker dealers included AE₂S, Apex Engineering Group, EJ Iron Works, Interstate Engineering, MVTL Laboratories, Red Flint Sand & Gravel, Sanitation Products, Stantec Consulting Services, and Visu-Sewer. The following business firms, suppliers, and associations participated in the exhibitor program: NDAWWA; NDCAPWA; NDWEA; NASECA-ND; NDRWSA; Thein Well, Co.; Brock White Co.; KLJ; Ulteig; Great Northern Environmental; Paxxo Inc.; Electric Pump Inc.; Ferguson Waterworks; EJ Iron Works; Construction Specialties; General Repair Services; Tech Sales Co.; Ackerman-Estvold; Utility Service Co.; Visu-Sewer, Inc.; Vessco, Inc.; Hawkins, Inc.; NDSU/NDLTAP; Legette, Brashears & Graham, Inc.; Quality Flow Systems, Inc.; Infratech; Apex Engineering Group; AE₂S; Moore Engineering, Inc.; Advanced Drainage Systems; Sanitation Products, Inc.; S. Robert's Company; Fisher, Harris & Associates; Team Lab; Ess Brothers, Inc.; Northern Pipe Products; Interstate Engineering, Inc.; Stantec Consulting Service Inc.; Houston Engineering, Inc.; Wells Concrete; ABM Equipment & Supply; KLM Engineering, Inc.; HD Supply Waterworks; Kodru-

Equipment, Inc.; Dakota Pump & Control, Inc.; Fargo Water Equipment/DSG; Bartlett & West, Inc.; Veit & Company, Inc.; DN Tanks; Red Flint Sand & Gravel, LLC; Larson Data Communications, Inc.; Treatment Resources, Inc.; Prinsco Inc.; Bolton & Menk, Inc.; Flexible Pipe Tool Company; SEH; Specialty Systems Products; Engineered Sales Co.; Granse/Trio Sales, LLC; SRF-Consulting Group; Integrated Process Solutions, Inc.; MVTL Laboratories, Inc.; Tnemec Co./Coating Resources, Inc.; Widseth Smith Nolting; ND Sewage Pump & Lift Station Service Co. Inc.; Sensus USA; and RMB Laboratories.

The North Dakota Operator Certification Advisory Committee met Wednesday, October, 15, 2014 at 9:00 a.m. in the Mezzanine Suite IV. The committee meets annually at the conference and, along with the NDDH, provides support for the North Dakota Water and Wastewater Operator Certification and Training Program.

Fargo municipal facilities tours were Monday afternoon and Tuesday morning with 13 attendees visiting the public works building and 13 visiting the regional drinking water storage and pumping facility.

The NDWEA luncheon and business meeting was held at 12:00 noon on the Pool Patio with NDWEA President Jessica Wagner presiding. Guest speaker Paul Bowen, Vice President, WEF, gave an update on WEF activities.

The Wednesday concurrent sessions started at 1:30 p.m. with Murthy Kasi, Trustee, NDAWWA; Don Tucker, Past President, NDWEA; and Terry Boehm, President, NDCAPWA moderating.

Wednesday's topics included:

- "A Historical Look at Municipal Ozone Gas Contacting in North America" - Jim Jackson, Director Municipal Sales, Mazzei Injector Company, LLC.
- "Contracting Certified Water and Wastewater Operators" - Shawn Heinle, Environmental Scientist, NDDH.
- "What to Do When the Pipes Freeze" - Brent Beechie, ND State Plumbing Board; Ward Heidbreder, ND Rural Water; Jeff Moberg, City of Tioga; and Greg Wavra, NDDOH.
- "Aquifer Storage and Recovery" - Christopher Larson, Water Treatment Project Manager, SEH.
- "Dickinson New IFAS WWTP" - Gary Zuroff, Public Works Director, City of Dickinson; and Karla Olson, Associate/Project Manager, Apex Engineering Group.
- "Evaluation of Anaerobic Digester Mixing Systems" - Susan Danzl, Project Manager, SEH; and Eric Miller, Graduate Student, NDSU.

- "Moorhead's Combined Nutrient, Odor & Corrosion Reduction" - Seth Lynne, Associate, Apex Engineering Group.
- "Collection System Panel Discussion" - Jessica Wagner, AE₂S; Craig Kubas, KLJ; and Gary Zuroff, City of Dickinson.
- "Technology and Tools for Managing Your Pavement" - Brian Simmons, Project Engineer; and Mark Schulz, CAD/AMS Coordinator, Bolton & Menk.
- "Hazard and Workplace Safety" - Luke Lindberg, Safety Coordinator, City of Fargo; and Terry Rust, Industrial Pretreatment/Lab Coordinator, City of West Fargo.
- "How to Pump in Small Places" - Ken Demmons, Senior Project Manager, HDR Engineering, Inc.
- "Stormwater Municipal Operations Panel" - Chad Zander, City of West Fargo; Melanie Parvey, City of Grand Forks; David Tuan, City of Williston; Terry Halstengard, City of Bismarck; and Derrick Placek, BNI Coal, LTD.

Attendees met at 3:00 p.m. in the Pool Patio for an afternoon break.

A social hour was held on the Pool Patio prior to the awards banquet. The following companies graciously sponsored the social hour, door prizes, coffee breaks, and golf tournament: ABM Equipment & Supply, LLC; Ackerman-Estvold; AE₂S; Apex Engineering Group; Bartlett & West, Inc.; Bolton & Menk, Inc.; EJ Iron Works; Electric Pump, Inc.; Fargo Water Equipment/DSG; Hawkins, Inc.; HD Supply Waterworks; Houston Engineering; Hughes Lift Station Service Inc.; Jet-Way Multiple Service, Inc.; KLJ; Killoran Trucking & Brokerage, Inc.; Moore Engineering, Inc.; MVTL Laboratories, Inc.; ND Sewage Pump and Lift Station Service Co.; Northern Pipe Products; SEH; Stantec Consulting Services; Team Lab; and Vessco, Inc.

The annual banquet and awards ceremony was held in the Great Hall with 243 members and guests in attendance. Mark Lindquist opened the awards ceremony by singing the national anthem. Next, Mr. Lindquist introduced the officers and dignitaries at the head table and asked Terry Rust to deliver the invocation.

Brenda Lennox, Vice President, AWWA, presented to Greg Wavra, Drinking Water Program Administrator, NDDOH, the George Warren Fuller Award and to Rodney Arness, City of Minot, the Operator Meritorious Award. Murthy Kasi, Trustee, NDAWWA, announced the winners of the poster competition and Young Professional of the year award. Dhritikshama Roy was the winner in the drinking water category, and Mohammad Enayet Hossain won the wastewater category and the overall competition.

This was the first year of the Young Professional of the year award which was awarded to Meredith Quinn, AE₂S. Next, Ms. Quinn announced the three finalists in the water taste test (Fargo, Mandan, and Valley City) with Fargo being this year's winner. Charlie Vein, President, AE₂S, drew the winners of the 13th annual Water for People raffle and announced that this year's raffle, sponsor donations, and mulligans raised a new high of \$9,210.

Next, Paul Bowen, Vice President, WEF, presented to Terry Rust, Past President, NDWEA, the Bedell Award.

Terry Boehm, President, NDCAPWA, announced the 2014 APWA project of the year awards with Hillsboro's new water treatment plant, designed by AE₂S, receiving the small community award and Dickinson's water reclamation Facility, designed by Apex Engineering Group, the large community award.

Mike Brisben, NDDOH, presented Operator of the Year Awards to Clay Kruger, Water Treatment Operator, City of Riverdale; Wayne Offerdahl, Wastewater Collection System Supervisor, City of Fargo; Lyle Quenzer, Water Treatment Operator, South Central Rural Water District; and Adam Thomas, Lead Water Plant Operator, City of Washburn. Mr. Brisben also announced that the team of Karla Olson, Jason Sorenson, and Tom Welle were the winners of the golf tournament.

The annual public works directors and city engineers meeting was held Thursday, October 16, 2014, at 7:30 a.m. in the Mezzanine Suite III.

The three Thursday morning concurrent sessions convened at 8:00 a.m., with Mike Berg, Trustee, NDAWWA; Jessica Wagner, President, NDWEA; and Jeff Hruby, Vice President, NASECA-ND moderating.

Thursday's topics included:

- "Stage 2 D/DBPR Road to Compliance Panel Discussion" - Lydia Fewless, NDDOH; Keith Demke, City of Bismarck; Dave Christianson, Coal Creek Station; Steve Hanson, Southeast WUD; Steve Johnson and George Reck, Aquapure/City of Lisbon.
- "Revised Total Coliform Rule" - Jeni Walsh, Environmental Scientist, NDDOH.
- "Design of an Integrated Membrane WTP to Treat Sulfates" - Brian Bergantine, Operations Manager, AE₂S.
- "Water Treatment Operational Challenges Overcome" - Mark Peterson, City of Fargo; Joe Ferguson, City of Grand Forks; Nick Beste, AE₂S; and Steve Ahlschlager, Moore Engineering.
- "Nutrient Criteria Panel Discussion" - Dallas Grossman, NDDOH; Mike Ell, NDDOH; Scott Schaefer,

AE₂S; and Wei Lin, NDSU.

- "Wastewater Discharge Permit Overview" - Marty Haroldson, NDPDES Program Manager, NDDH.
- "Future Planning for the Fargo Wastewater Treatment Facility" - Jim Hausauer, Wastewater Utility Director, City of Fargo; and Seth Lynne, Associate, Apex Engineering Group.
- "Effluent Filters - A Comparison of Old and New" - Susan Danzl, Project Manager, SEH.
- "Non-Dispersibles" - Karla Olson, Associate/Project Manager, Apex Engineering Group.
- "Hauled Waste Challenges" - Sarah Waldron, Environmental Scientist, NDDH
- "EPA Stormwater Update" - Greg Davis, Storm Water Program Manager, EPA Region 8.
- "Minnewaukan Relocation" - Eric Gilbertson, Project Manager, KLJ.
- "Upcoming Courses in Erosion Control-NDDOT/NDLTAP" Matthew Stone, Assistant Professor/Construction Management and Engineering, NDSU.
- "Industrial Cost of Service Modeling in Grand Forks" - Shawn Gaddie, AE₂S Nexus.
- "An Efficient Use of GIS for Stormwater Modeling in the Development of an Implementable CIP" - Rich Thornton, Senior Project Manager, HDR Engineering, Inc

A break was held in the Pool Patio at 10:00 a.m.

The joint business meetings and luncheon of the NDCAPWA and NDWPCC were held at 12:15 p.m. with NDCAPWA President Terry Boehm and NDWPCC President Dean Sletten presiding. President Boehm called the NDCAPWA meeting to order and provided an update on APWA goals and accomplishments. The NDCAPWA meeting adjourned at 12:36 p.m.

President Sletten called the NDWPCC meeting to order at 12:37 p.m. As the first order of business, President Sletten called for a motion to dispense with the reading of the minutes from the 2013 annual meeting in Grand Forks and approve the minutes as published in the *Official Bulletin*, October-December 2013, Volume 101, Numbers 10-12. Tom Welle so moved. Terry Rust seconded, and the motion carried.



Rob Gravatt
Regional Manager

Cell: 605-212-0821

rgravatt@engamerica.com

647 Hale Ave. N., Oakdale, MN 55128

Ph: 651-777-4041 Fax: 651-777-5312 www.engamerica.com

America's Employee-Owned Leader in Liquid Storage Tank Solutions

Next, Mr. Brisben presented the 2014 treasurer's report, showing a net income of \$36,869.50 and total assets \$136,760.88. President Sletten called for a motion to approve the treasurer's report. Tracy Eslinger so moved. Mel Bullinger seconded, and the motion carried.

President Sletten called for a motion to dispense with reading of the resolutions and approve the resolutions as written and posted next to the registration table throughout the conference. Rick Gillund so moved. Greg Wavra seconded, and the motion carried.

Next, President Sletten nominated Pete Bilstad and Ray Peterson, City of Fargo; and Rodney Arness, City of Minot for life membership. President Sletten called for other nominations from the floor. Hearing none, President Sletten called for a motion to close nominations and the secretary be instructed to cast a unanimous ballot. Seth Lynne so moved. Tom Welle seconded, and the motion carried.

Next, President Sletten called for a report from the nominating committee. Mike Berg nominated Sarah Volk for incoming director and Jim Lennington for associate director and read the following slate of officers for 2014-2015:

Dan Jonasson, President
Seth Lynne, President-Elect
Joe Ferguson, Vice President
Tracy Eslinger, Director
Mike Berg, Director
Wei Lin, Director
Sarah Volk, Director
Jim Lennington, Associate Director
Mike Brisben, Secretary-Treasurer

President Sletten called for other nominations from the floor. Hearing none, President Sletten called for a motion to close nominations and the secretary be instructed to cast a unanimous ballot. Meredith Quinn so moved. Murthy Kasi seconded, and the motion carried.

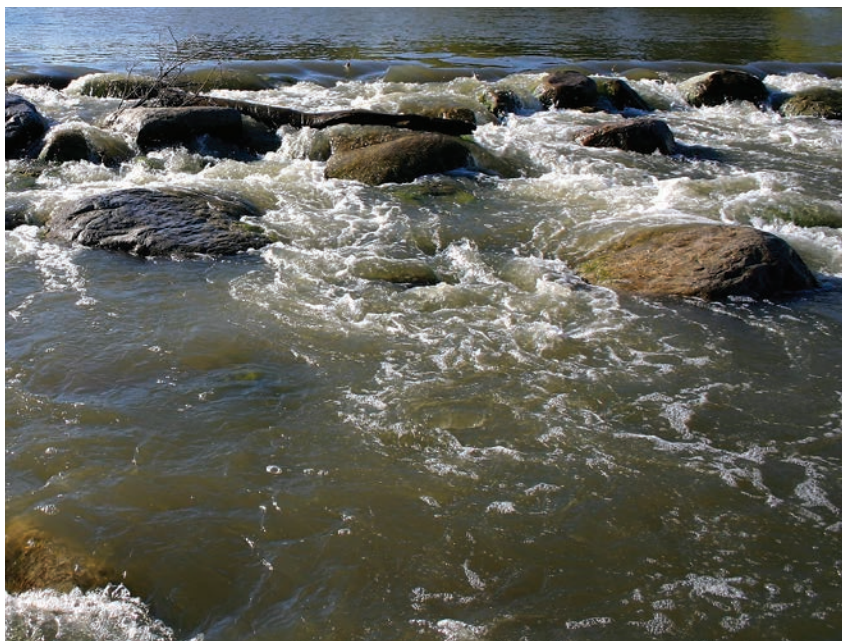
Next, President Jonasson presented outgoing President Sletten the NDWPCC President's Service Award and thanked him for his hard work and dedication.

President Jonasson called for a motion to close the meeting. Tom Welle so moved. Murthy Kasi seconded, and the 86th annual meeting of the NDWPCC adjourned at 12:44 p.m., Thursday, October 16, 2014.

Respectfully submitted,
Mike Brisben, Secretary-Treasurer

Municipal Services

- » Wastewater Systems
- » Water Systems
- » Streets and Storm Sewers
- » Wetland Delineation/Mitigation
- » Solid Waste/Landfills
- » Site Grading and Drainage Plans
- » Flood Control
- » Groundwater Studies
- » Airport Improvements



WidethSmithNolting.com

Engineering | Architecture | Surveying | Environmental

Alexandria | Baxter | Bemidji | Crookston | East Grand Forks | Grand Forks | Red Wing | Rochester

**WE SPECIALIZE
IN ANNUAL
SERVICE
CONTRACTS**

**SERVICE AND
MAINTENANCE OF
ALL MAKES OF LIFT
STATIONS**

ND SEWAGE PUMP
NDSP
& LIFT STATION
SERVICE CO INC

**24 HOUR
REPAIR
SERVICE**



abs

WE SELL

- ABS Pumps & Mixers
- Goulds Pumps
- Dewatering Pumps
- Used Pumps & Parts
- Anchor Float Switches
- Aluminum Hatches
- SJE Rhombus Controls
- Relays, Switches & Alternators
- Stainless Steel Chain
- Stainless Steel Pipe & Fittings
- Winches & Hoists

North Dakota Sewage Pump & Lift Station Service Company
1734 Main Avenue East • West Fargo, ND 58078
701-282-6760 • 800-832-7055 • Fax 701-282-3579

Operator of the Year Awards

Thank you for your hard work!

The North Dakota Department of Health, in an effort to encourage proper operation and maintenance of water and wastewater systems, instituted an annual operator awards program in 1981 at the annual North Dakota Water and Pollution Control Conference in Jamestown. This year marks the 34th anniversary of the awards program which has honored 184 operators and three military units (the U.S. Army Reserve, the N.D. Army National Guard, and the N.D. Air National Guard) for outstanding service.

The awards are based on:

1. Field and inspection reports.
2. Compliance with state and federal regulations.
3. Participation in the North Dakota Operator Training and Certification Program.
4. Participation in the North Dakota Water and Pollution Control Conference, North Dakota Chapter of the American Public Works Association, North Dakota Water Environmental Association, the North Dakota Section of the American Water Works Association, and the North Dakota Chapter of the North American Stormwater and Erosion Control Association.



Mike Brisben (left), Department of Health, congratulates Wayne Offerdahl, City of Fargo.

Wayne Offerdahl - City of Fargo

Wayne currently is the Wastewater Collection System Supervisor managing 64 sanitary lift stations in Fargo, as well as lift stations as far south as Oxbow and north as Harwood. Wayne is an active member of the conference and NDWEA. He served as the PWO Regional Council Representative for NDWEA and sits on the operations and safety committee. Wayne's wastewater utility director speaks highly of him, saying he is one of the most positive and enthusiastic workers and is well liked and respected. Wayne has been a certified Grade 04 Wastewater Treatment Operator since 1993.



Mike Brisben (left), Department of Health, congratulates Lyle Quenzer, South Central Regional Water District.

Lyle Quenzer - South Central Regional Water District

Lyle started in the water industry as the water treatment plant foreman for WEB Water in South Dakota before joining South Central RWD in May 2012, just as construction on the new South Central Emmons plant was nearing completion. Along with Doug Neibauer, Lyle was able to run the first gallon of water through the new three MGD plant. The Emmons plant uses ozone, steel plate settlers, and UF and RO filters to treat water from Lake Oahe. Lyle is married with three children and a granddaughter and spends his spare time raising cattle. He is a certified Grade 03 Water Treatment Operator.



Clay Kruger accepts his operator of the year award in Riverdale.

Clay Kruger - City of Riverdale

Clay grew up in the Belfield/Dickinson area graduating from Dickinson High. He moved to Billings, Mont. for six years before coming back to ND. Once back, he worked as an electrician for 4.5 years before going back to school in advanced electronics and avionics. He joined the City of Riverdale's maintenance department in 2005 and has operated the new water plant the past 4.5 years. Clay is a certified Grade 02 Water Treatment Operator.



Mike Brisben (left), Department of Health, congratulates Adam Thomas, City of Washburn

Adam Thomas - City of Washburn

Adam is a graduate of Washburn High School and the University of Mary. He started with the city as summer help in 2002 and was hired full time in 2010, taking over as lead water plant operator in the middle of a \$5 million retrofit of the old treatment plant to a new Ultrafiltration Membrane treatment system that went on line in 2011. Adam is a published sports writer covering high school sports and is serving his fifth year on the Washburn Park Board. He is a member of NDAWWA and is a certified Grade 03 Water Treatment Operator and Grade 02 Water Distribution, Wastewater Treatment, and Wastewater Collection Operator.

Past Recipients: Operator of the Year Awards

| | | | | | |
|-------------|--|-------------|---|-------------|--|
| 2013 | Darrell Haman, Towner Don Hartman, Wildrose Bradley Moser, Medina Dale Neubauer, Fargo | 2006 | Kelly Berentson, Westhope Jerry Imhoff, Elgin Jay Haugen, Michigan | 2001 | Verdeen Backstrom, Minnewaukan Jerome Broz, Fairmount Jack Knudson, Jamestown Paul Lacina, Barnes Rural Water |
| 2012 | Alan Beyries, Garrison Frank Mosser, Maddock Sam Shutt, Minto Michael Tank, Medora | 2005 | Keith Olson, Harvey Bob Weninger, Harvey Ken Blilie, Kindred Del Kindelspire, LaMoure | 2000 | Tim Gjovig, Crosby Jim Fixen, Alexander Ed Rekkedal, Arvilla Reuben Grosz, Bismarck |
| 2011 | Kent Bickler, R&T Water Supply Mike Houska, Grafton Rick Larson, Rugby William "Bill" McQuiston, Williston | 2004 | Ron Hendrickson, Fargo Pete Bilstad, Fargo Delvin Stemen, Burlington Mark Paddock, Burlington | 1999 | Richard Wanner, Bismarck Tom Sieg, Anamoose Ron Kleven, Grafton Bill Emerson, Minot |
| 2010 | Wade Hesch, Valley City Mark Peterson, Fargo Donald Wald, Wahpeton Keith Winson, Maddock | 2003 | Rick Anderson, Central Plains Water District Keith Fulsebakke, Bottineau Don Horning, Zap | 1998 | Bill Link, Walsh Water Users Ross Carter, Sherwood Bob French, Bismarck Terry Leingang, Riverdale |
| 2009 | Dennis Larson, Park River Ken Miskavige, Grafton Gary Neuberger, Beulah Jason Sorenson, Minot | 2002 | Arlis Bischoff, Grafton Allan Kraft, Cavalier Doug Neibauer, South Central Regional Water District Gary Zander, Mandan | 1997 | Randy Seelig, Lisbon Skip Rapp, Dickinson Larry Thomas, Washburn Gary Hager, Upper Souris Water Users |
| 2008 | Bill Gefroh, Bismarck Steve Himmelspach, Mandan Richard Jacobson, Hazen Roy Hayes, Hazen | | | | |
| 2007 | Duane Golliet, Fargo Raymond Peterson, Fargo Terry Rust, West Fargo Jerome Olson, Traill Rural Water District | | | | |

DAKOTA SUPPLY GROUP
For all the right connections!

FARGO WATER EQUIPMENT
A Division Of **DSG**

FARGO, ND ▶ (800) 342-4676
SIOUX FALLS, SD ▶ (800) 660-5531
BISMARCK, ND ▶ (855) 337-9258
RAPID CITY, SD ▶ (800) 660-5538

www.dakotasupplygroup.com

1997 Staff Members of the 348th
Quartermaster Detachment
(Water Purification)
United States Army Reserve

Staff Members of the 136th
Quartermaster Battalion
North Dakota Army National
Guard

Staff Members of the 119th
Civil Engineering Squadron
North Dakota Air National
Guard

Operators of Grand Forks-Trail
Water Users

Randy Loeslie
Mike Thompson
Neil Breidenbach
Ray Rakoczy

Operators of Agassiz Water Users
Gus Cronquist
Clark Cronquist

City of Grand Forks Water Treatment
Plant Operators and Employees

| | |
|------------------|-------------------|
| Brian Borden | Jason Coyle |
| Andy Job | Greg Batzer |
| Steven Bolton | David Brose |
| James Evenson | John Ferguson |
| Larry Hadland | Erik Johnson, Jr. |
| Richard Jurgens | Rodney Kalis |
| Ken Mather | Robert Peterson |
| Wayne Tunseth | Dan Tupa |
| Craig Lacher | Steve Kolar |
| Linda Schumacher | Hazel Sletten |

City of Grand Forks Water
Distribution Operators

| | |
|------------------|------------------|
| Ron Borden | Darrel Danielson |
| Robert Deitz | Perry Hart |
| Jackie Heidrich | Michael Klemisch |
| David Kratochvil | Dennis Kulas |
| Shirley Litchy | John Scheffer |
| Mark Skow | Peter Stoute |
| Randy Thompson | Donald Zhorela |

Dwight Wurzbacher

City of Grand Forks Wastewater
Operators
(Storm and Wastewater Departments)
Thomas Helle Kenneth Stevenson
Peter Aamold Dennis Dunn
Robert Fetsch Duane Fontaine
Gary Goetz Dennis Gunderson
Edward Haskell David Kresel
Thomas Mikelson Carl Sherlock
Lawrence Morrison Richard Winkels

1995 Brad Moser, Medina
Les Sigette, McVile
Don Olafson, Valley City
Charles Jaskowski,
Bismarck

1994 Gregg Christensen, Cass
Rural Water Users
Gordon Johnson,
North Valley Water Assoc.
Kerry Miller, Stanton
Virgil Sund, Oakes

1993 Jeff Huwe, Columbus
Clay Pettys, Lake Metigoshe
Recreation Service Dept.
Richard Resell, Williston

1992 Dave Auch, Mandan
Joel Heitkamp, Southeast
Water Users
Michael Schneider, Jr.,
Strasburg
Joseph Leo Tupa,
Grand Forks

1991 Jim Moe, Devils Lake
Lyle Mitzel, Wahpeton
Joe Manning, Fargo
Howard Plum, Maddock

1990 Keith Demke, Bismarck
Rick Gillund, Enderlin
Greg Nordsven, Killdeer
Byron Thronson, Minot

1989 Ed Braunagel, Harvey
Greg Larson, R&T Water
Supply
Ingram Opp, New Salem
Dale Townsend, Carrington

1988 David Burckhard, Minot
Ray Feltman, Minto
Dale Hanson, Valley City
Robert Job, Linton

1987 Don Erickson, Watford City
Dave Johnson, Washburn
Marvin Johnson, Jamestown
Harland Peterson, Carrington

1986 Dan Reiter, Minot
Larry Thelen, South Central
Regional Water District
Bill Werle, Velva
Jerry Zander, Mandan

1985 Ray Foss, Hillsboro
Phil Furaus, Harvey
Francis Leintz, Lisbon
LaRay Reis, Lisbon
Dwight Wurzbacher,
Grand Forks

1984 Larry Boepple, Halliday
Lester Carman, Bismarck
Joe Roshau, Killdeer
Beven Shaw, Williston

1983 Gary Armstrong, Rolla
Cliff D'Heilly, Neche
Virgil Houim, Rugby
Bud Lund, Bismarck
Aronld Stokkeland,
Cooperstown

1982 Fred Clark, Grafton
Harry Hanks, Beulah
Don Larson, Gwinner
Bill Mendewald, Hankinson
John Muus, Grand Forks

1981 Marvin Baska, Mohall
Alvin Carlson, Langdon
Al Swanson, Jamestown
Gene Thomas, McVile
Casper Volk, Rugby



OFFERING

**WATER TREATMENT AND
DISTRIBUTION SYSTEM,**

PLANNING,

WATER STORAGE,

EROSION CONTROL,

PUMPING SYSTEMS AND

DISPOSAL SOLUTIONS.

kljeng.com

ANNUAL OPERATOR TRAINING PROGRAM

The North Dakota Department of Health is pleased to announce the 55th Annual Professional Water and Wastewater Operator Training Program.

1. Objectives - These classes will fulfill the continuing education credit (CEC) requirement for certified operators. You will receive 12 CECs for each session attended. Roll will be taken during the sessions to verify attendance. Expect to hear presentations regarding regulations and how to avoid mistakes that can lead to non-compliance for your facility. This will include general operation and maintenance topics. The courses, however, are not geared specifically to prepare operators for certification exams.

2. Registration - Please preregister using the registration form on page 26, or complete your registration form online at <http://www.ndhealth.gov/mf/> and mail or fax (701-328-6206) the printed copy. You may attend both water and wastewater sessions. Please indicate a second choice when selecting class sessions. Please make copies if more than one operator will be attending. A \$20.00 registration fee payable to the North Dakota Water and Pollution Control Conference (NDWPCC) is required. This covers attendance at one or more sessions. A confirmation letter will be sent and must be presented at the time of registration. If you need to reschedule or cancel, please call Patty Carman at 701-328-6628.

3. Membership - A \$10.00 membership fee for the NDWPCC is optional. Membership includes the *Official Bulletin* and may be added to the total payment.

4. Certification exams - A separate application form is required. An application form and directions are included; please fill out completely, or complete your application form online at <http://www.ndhealth.gov/mf/> and mail to: N.D. Department of Health, 2639 E. Main Ave., Bismarck, ND 58501. Do not use previous applications. Signed applications must be received by the certification officer 15 DAYS before the examination date. Applications received after the deadline will be rejected. No walk-in exams will be allowed. Please make copies if more than one operator will be testing.

A. A photograph identification card is required to take exams.

B. A confirmation letter will be sent and must be presented at the time of testing.

C. If you need to reschedule or cancel, please call Craig Bartholomay at 701-328-6626.

D. Please bring your own calculator and pencils.

E. Make your check for \$10.00, per exam, payable to the North Dakota Department of Health; do not mail. Make payment when you check in prior to writing exams.

F. Results of the exams will be sent out after all of the training sessions are completed and after payment has been received for the exam(s).

5. Location - All training sessions and certification exams will be held at the Environmental Training Center, 2639 East Main, Bismarck. Please park on the west or south side of the training center.

6. Chlorine Meter Training - (for applicable water operators) - This training is voluntary and will be offered prior to the water treatment and distribution sessions (see schedule). If you would like to participate, please provide your own chlorine meter. For more information call Bob Markhouse at 701-328-6623.

7. pH certification - (for applicable wastewater operators) - This will be offered in conjunction with the wastewater treatment training sessions (see schedule). For more information on the wastewater pH certification or to see if you should attend, call Luci Snowden at 701-328-5239.

8. Sponsors -

- N.D. Department of Health
- N.D. Water and Pollution Control Conference
- N.D. Chapter of the American Public Works Association
- N.D. Section of the American Water Works Association
- N.D. Water Environment Association

9. Special needs - If you need special accommodations or more information, please call Mike Brisben at 701-328-6622.

10. A block of rooms at the Ramkota Hotel, 800 South 3rd Street (701-258-7700) has been booked for the operator training sessions. If you elect to use the Ramkota Hotel, the rates are \$74.70 (single) and \$94.70 (double) plus tax. Other hotels honoring state rates based on availability include: Comfort Inn 701-223-1911, Comfort Suites 701-223-4009, Fairfield Inn North 701-223-9077, Fairfield Inn South 701-223-9293, Expressway Inn 701-222-2900, Kelly Inn 701-223-8001, and Ramada Inn 701-258-7000.

11. Class Schedule:

Water Treatment and Distribution - in Bismarck.

March 2, 3, and 4, 2015
March 9, 10, and 11, 2015
March 23, 24, and 25, 2015
March 30, 31, and April 1, 2015

Check-in time for registration is 12:00 - 1:00 p.m. on March, 2, 9, 23, and 30.
Exams are scheduled from 1:00 - 5:00 p.m. on March 4, 11, 25, and April 1.

Chlorine Meter Training - (for applicable water operators)
March 2, 9, 23, and 30 at 10:00 a.m.

Wastewater Treatment and Collection - in Bismarck.

April 13, 14, and 15, 2015
April 20, 21, and 22, 2015

Check-in time for registration is 12:00 - 1:00 p.m. on April 13 and April 20. Exams are scheduled from 1:00 - 5:00 p.m. on April 15 and April 22.

pH Certification - (for applicable wastewater operators)

April 13 and 20 at 10:00 a.m.

12. Topics in Water Treatment and Distribution may include:

SDWA Update, Operator Certification, Overview of Water Treatment Rules, BacT Update, Stage I & II Disinfectants/Disinfection By-products Rules, Filtration, Chlorine Meters and Measurements, Disinfection of Pipes and Reservoirs, Fire Hydrants, Groundwater Rule, Lead and Copper Rule, Math, Cross Connections, Pumps, System Security, Fluoridation, Wellhead/Source Water Protection, and others.

13. Topics in Wastewater Treatment and Collection may include:

Wastewater Basics, History of Wastewater Treatment, Troubleshooting, Physical Aspects of Lagoons, Wetland Systems, Microbiological Life in Ponds, Collection Systems, Operator Certification, Math, Discharge Permits, Lift Station Rehabilitation, Stormwater Update, Pond Construction, and others.

14. All operators working in public water treatment and/or distribution systems which serve a population of 3,300 or less are eligible for reimbursement. Please pick up the appropriate forms during the training sessions. After payment to the North Dakota Water and Pollution Control Conference and/or state is made, you may apply for reimbursement.

15. The 2015 Registration Form and Application for Operator Certification exams can be located by clicking on calendar and publications on the Division of Municipal Facilities website at <http://www.ndhealth.gov/mf/>.

16. Questions:

Regarding exams, call Craig Bartholomay at 701-328-6626. Regarding training sessions, call Mike Brisben at 701-328-6622.

Regarding pH certification, call Luci Snowden at 701-328-5239.

Regarding chlorine meter training, call Bob Markhouse at 701-328-6623.



Think Big. Go Beyond.

WATER ENGINEERING

MUNICIPAL ENGINEERING

LAND DEVELOPMENT

SURVEY/MAPPING/GIS

FINANCIAL/ASSET MANAGEMENT

INSTRUMENTATION & CONTROL

ELECTRICAL ENGINEERING

www.ae2s.com

2015 Registration
55th Annual Professional Water and Wastewater Operator Training Program

Name _____
(Please Print Clearly)

Employer _____

Employer's Address _____

City, State, Zip Code _____

Home Address _____

City, State, Zip Code _____

Daytime Telephone Number _____

Email Address _____

Check below the sessions you wish to attend. PLEASE NOTE THAT CLASS ATTENDANCE IS LIMITED TO THE FIRST 60 REGISTRANTS. A confirmation letter must be presented at the time of check-in at the Environmental Training Center. Attendance will be required for the issuing of continuing education credits. Roll will be taken during the sessions to verify attendance.

Do not apply for certification exams on this form (a separate application form is enclosed).

| <u>Name of Session</u> | <u>Date of Session</u> | <u>1st Choice</u> | <u>2nd Choice</u> |
|-------------------------------------|------------------------|------------------------------|------------------------------|
| Water Treatment and Distribution | March 2, 3, 4 | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Treatment and Distribution | March 9, 10, 11 | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Treatment and Distribution | March 23, 24, 25 | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Treatment and Distribution | March 30, 31, April 1 | <input type="checkbox"/> | <input type="checkbox"/> |
| Wastewater Treatment and Collection | April 13, 14, 15 | <input type="checkbox"/> | <input type="checkbox"/> |
| Wastewater Treatment and Collection | April 20, 21, 22 | <input type="checkbox"/> | <input type="checkbox"/> |

Manuals for sale (while supplies last):

CSU Small Water System Operation and Maintenance (\$50.00) _____

CSU Water Treatment Plant Operation, Vol.1 (\$50.00) _____

CSU Water Treatment Plant Operation, Vol.2 (\$50.00) _____

CSU Water Distribution System Operation and Maintenance (\$50.00) _____

EPA Stabilization Pond Manual (\$12.00) _____

CSU Wastewater Collection System Operation and Maintenance, Vol.1 (\$50.00) _____

CSU Wastewater Collection System Operation and Maintenance, Vol.2 (\$50.00) _____

CSU Small Wastewater System Operation and Maintenance, Vol.1 (\$50.00) _____

CSU Small Wastewater System Operation and Maintenance, Vol.2 (\$50.00) _____

Operations of Wastewater Treatment Plant Vol. 1 _____

Operations of Wastewater Treatment Plant Vol. 2 _____

Membership in ND Water and Pollution Control Conference
 (includes *Official Bulletin* - \$10.00)

Subtotal _____

Registration Fee (covers attendance at one or more sessions) **\$ 20.00**

Make check for training program, membership, and manuals payable to: **Total** _____

ND Water and Pollution Control Conference or NDWPCC
918 East Divide Avenue, 3rd Floor
Bismarck, ND 58501-1947

| Department Use Only | |
|------------------------------|------------------------------|
| Date Received _____ | |
| Amount Received _____ | |
| Cash MO or CK# _____ | |
| QB: <input type="checkbox"/> | DB: <input type="checkbox"/> |



Shaping Your World

Water Resources

Water is essential for the survival of all forms of life and is our most precious natural resource. Humans use water for everything from consumption and sanitation to transportation, food production, and recreation. There are several challenges associated with proper water resource management and quality.

At Houston Engineering, we have decades of experience in the world of water. Whether your concern is quality, too much, or too little, our talented experts utilize the latest technology to properly plan for these challenges, and will help determine the best solutions to your water issues.

■ North Dakota Offices

Fargo/Headquarters
Bismarck
Dickinson
Minot

■ Minnesota Offices

Maple Grove
Thief River Falls

water resources | environmental | GIS | transportation | web apps | mobile
surveying | waste management | municipal | land and site development



houstoneng.com

Young Professionals at the 2014 North Dakota Water and Pollution Control Conference

Thanks for Participating

North Dakota Water Young Professionals Committee (NDWYPC) organized several events during the 86th North Dakota Water and Pollution Control Conference (NDWPCC) in Fargo October 14-16, 2014. The first ever community service project was organized as a pre-conference event on October 13. Events on the first day of the conference (October 14) included student presentations and a Student and YP reception. Students from North Dakota State University (NDSU) presented their design project on wastewater treatment regionalization for the cities of Fargo and West Fargo. The Student and YP reception was held at Buffalo Wild Wings in south Fargo and was attended by dignitaries such as American Water Works Association (AWWA) Vice President Brenda Lennox and Water Environment Federation (WEF) President-Elect Paul T. Bowen. YP Events on the second day of the conference (October 15) started with a YP Committee meeting in the morning followed by the annual student poster contest. The YP Committee meeting was attended by the committee members, student representatives from NDSU, and the Vice President of AWWA, Brenda Lennox. Awards to the poster winners were presented during the conference awards banquet.

Community Service Project – Giving Back to the NDWPCC Host Community

The NDWPC successfully organized the first ever community service project as part of the NDWPCC conference. The goal of the service project was to help make Rabanus Park and the associated stormwater pond (one of Fargo's largest basins) more neighborhood friendly and aesthetically pleasing, while continually serving the community as a fully functioning stormwater detention basin. Students from NDSU, YPs from various consulting firms, experienced professionals, regulators, and the City of Fargo staff took part in planting trees and shrubs in a designated area of the park. After planting more than 50 trees and 100 shrubs in a few hours of work, the volunteers celebrated with a barbeque and a social near the park. It was estimated that more than 50 volunteers participated in this event.

YP Poster Contest

The poster contest was organized by the NDWPC with strong support from the conference organizers. The poster session was organized as an opportunity for students and YPs to present their design and research works in the water and wastewater fields to fellow section members. The event showcased 10 posters with research in water and wastewater treatment, surface water quality, and water resources management. Judges this year included Dean Sletten with Moore Engineering, Inc., Dustin Dale with Advanced Engineering and Environmental Services, Inc., Troy Hall with the City of Fargo water treatment plant, Don Tucker with the City of Fargo wastewater treatment plant, and Paul Bowen with WEF. Three different categories were identified: top three posters for the overall contest, top poster in the drinking water category, and top poster in the wastewater category. The overall poster winners were: first place - Mohammad Enayet Hussain, second place - Chaipon Juntawang and third place – Dhriti Roy. In addition, Mohammad won the top poster in the wastewater category, and Dhriti won the top poster in the drinking water category. All three winners are graduate students at NDSU. Mohammad, the winner of wastewater category will receive a \$100 cash prize from the N.D. Water Environment Association (WEA). Dhriti, the winner of drinking water category will receive a scholarship of up to \$1,500 to cover her trip expenses to present her poster at AWWA's Annual Conference and Exhibition (ACE15) in Anaheim, Calif. in June 2015. Summary articles of all these winning posters and two other participants are presented in the following pages.



(Left to right) Chaipon Juntawang, Mohammad Enayet Hossain, Dhriti Roy, and Murthy Kasi.

Iron Cross-linked Biopolymer for Aqueous Phosphate Removal

By: Mohammad Enayet Hossain, Cody Rittl, and Achintya N. Bezbaruah, North Dakota State University

This work was presented during the Young Professionals Poster Competition at the 86th North Dakota Water & Pollution Control Conference in Fargo, N.D.. Mohammad Hossain won the award in the Wastewater Treatment Track and will receive a \$100 cash prize from the North Dakota Water Environment Association. He also won first place in the overall poster contest.

Phosphorus (P) is vitally important for the growth of plants and microorganisms in terrestrial ecosystems. However, when excess phosphorus in terrestrial ecosystems finds its way into aquatic bodies, it becomes a problem there. Excess phosphorus triggers overgrowth of algae and plant species that finally leads to eutrophication. On the other hand, phosphorus is a nonrenewable resource and a recent assessment brought it to the fore that natural phosphate (PO_4^{3-}) deposits will last for approximately 60-240 years. In this research work, novel iron containing alginate (MCA) beads were successfully synthesized and subsequently used for aqueous phosphate removal (Figure 1). The product is patented by North Dakota State University (<http://www.ndsuresearchfoundation.org/rft419>). A series of batch experiments were conducted with the FCA beads to determine the feasibility of using them in eutrophic lakes reclamation.

Batch experiments were conducted with wet (fresh) beads (0.1181 gm dry weight) using three different concentrations of phosphate (5, 50 and 100 mg PO_4^{3-} -P/L). About 94% phosphate was removed in 6 h from the aqueous solution by wet beads having an initial phosphate concentration of 5 mg PO_4^{3-} -P/L. With 50 mg PO_4^{3-} -P/L, the beads were found to remove only ~41% in 6 h but achieved 89% phosphate removal in 96 h. A lower concentration (100 μg PO_4^{3-} -P/L) was also selected to get the insights into the kinetics of removal at an environmentally relevant PO_4^{3-} -P concentrations found in eutrophic lakes (Figure 2). No change in phosphate removal was observed in the presence of Cl^- , HCO_3^- , SO_4^{2-} , NO_3^- and natural organic matter (NOM).

To investigate the feasibility of using these FCA beads in real life situation (e.g., in eutrophic lakes), "pouch experiments" were conducted in two conditions, namely shaking and static where MCA beads were introduced into the water in pouches. From the "pouch studies" conducted, the bagged beads in pouches were found to work almost as well as the free loose beads in shaking condition. In 24 h, bagged beads removed ~58% phosphate from the solution whereas loose beads removed ~60% phosphate. However, in static condition there has been a significant decrease

in phosphate removal by FCA beads. Bagged FCA beads removed ~15% phosphate from the phosphate-spiked solution whereas the loose beads removed ~17% phosphate from the solution. Of course, in lake condition, there will be a lot of turbulence that will reduce the mass transfer resistance enabling the FCA beads perform better.

The successful sorption of phosphate by FCA beads is expected to have enormous implications for nutrient removal and recovery. From the "pouch studies" results it can be concluded that the MCA beads hold great promise for use in the reclamation of eutrophic lakes. The beads presented in this research are a patented product. Additional research is required to find out the exact mechanism of phosphate removal and the feasibility of using these FCA beads in soils.



Figure 1 (left) Enhanced photo to show size of beads.

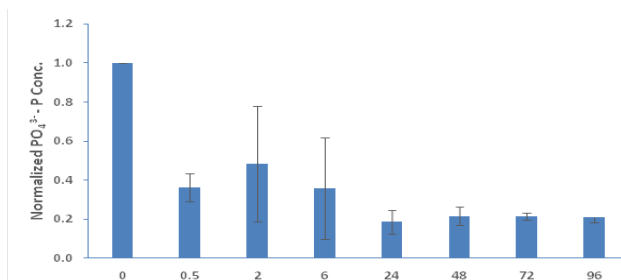


Figure 2 (below) Normalized PO_4^{3-} versus time

Mr. Mohammad Enayet Hossain is a third-year graduate student (PhD) in the Environmental and Conservation Sciences in Civil and Environmental Engineering at North Dakota State University (NDSU). He is originally from Bangladesh where he worked as a faculty member in the Department of Soil, Water and Environment at the University of Dhaka and in the Department of Soil Science at the University of Chittagong. Mr. Hossain holds a Bachelor's Degree in Soil, Water and Environment and a Master's Degree in Soil Science from the University of Dhaka. He has achieved numerous awards in his career. He is the recipient of SWED-DU Trust Gold Medal for his academic excellence. He is also a NDWRRI fellow. He also received Pre-graduate Scholarship, Outstanding Academic Performance Award, Imamul Huq Stipend, SWED-DU Trust stipend, Dr. S.A. Momen Memorial Scholarship, Abul Kashem Haider Education Development Scholarship and Post-graduate Government Scholarship. The research presented here is ongoing and supported with funds from National Science Foundation (Grant # CMMI-1125674) and North Dakota Department of Commerce (PI for both grants is Bezbaruah).

Delaying Fouling Condition

By Aerobic Cell Entrapment-Membrane Bioreactor (AE-MBR)

By: Chaipon Juntawant and Eakalak Khan, North Dakota State University; Chiwat Rongsayamanot, Prince of Songkla University, Thailand.

Membrane bioreactor (MBR) has been known for high efficiency in removing a wide range of contaminants (organic matter, nutrient, and emerging pollutants). Membrane pore blocking due to accumulation of thick sludge cake on the membrane surface was often found to be a main cause of membrane fouling in MBR. Membrane fouling is a main operational problem which seriously limits applications of MBR because of high chemical costs and high energy consumption associated with membrane cleaning. Cell entrapment technique has been applied in a field of biological wastewater treatment to particularly prevent washout of active microorganisms. Moreover, entrapped cells offer several advantages over suspended cells including continuous cell regeneration, easier separation from supernatant, and more tolerance from toxic substances. This study attempted to take advantage of entrapped cells in order to reduce membrane fouling and make MBR more cost effective.

Laboratory-scale suspended-cells-based MBR (AS-MBR) and entrapped-cells-based MBR (AE-MBR) were set up identically and seeded by mixed liquor from a municipal wastewater treatment plant and entrapped mixed liquor, respectively (Figure 1). The reactors were made of fiber glass which consists of two compartments: (a) bioreactor (7 L) and (b) membrane (3 L). The membrane compartment contained polyvinylidene fluoride (PVDF) HF module with a nominal pore size of 0.1 μm and a total effective filtration area of 0.047 m² (GE Water and Power, CA). The reactors were fed with synthetic wastewater and operated under an aerobic condition. Operational conditions are summarized in Table 1.

Permeate was collected weekly from the reactors during membrane filtration to investigate soluble organic matter removal. Extraction of bound extracellular polymeric substances (bEPS) and soluble microbial products (SMPs) from the mixed liquor was performed by heating at 80°C. Protein and carbohydrate contents in EPS and SMP were quantified. Permeate flux and transmembrane pressure (TMP) were monitored during the operation in order to investigate fouling condition. Under 1 day hydraulic retention time, a constant permeate flux at 10.63 L/m²-h (LMH) was maintained through 15 minutes back-flushing and air scouring for every 3 hours. Chemical cleaning with sodium hypochlorite and citric acid solutions was applied whenever TMP reached 55 kPa.

Results showed that AS-MBR and AE-MBR removed soluble chemical oxygen demand at comparable levels. Figures 2 and 3 show that AE-MBR produced less SMPs and bEPS than AS-MBR (29 – 32% less carbohydrate and 57 – 83% less protein in SMPs; 20 – 23% less carbohydrate and 76 – 81% less protein in bEPS). The rate of TMP increase of AS-MBR was higher than AE-MBR under the same permeate flux. AE-MBR had longer operation time than AS-MBR until membrane chemical cleaning was required. After the chemical cleaning, AS-MBR was operated under higher TMP than AE-MBR implying more irreversible foulant accumulated in AS-MBR (Figure 4). This study demonstrated less membrane fouling in AE-MBR compared with AS-MBR. AE-MBR was proposed as new design of MBR which is likely more cost-effective than conventional suspended-cells-based-MBR as result of less membrane fouling and in turn longer life span of

Mr. Chaipon Juntawang is a student in the Environmental and Conservation Sciences Program, NDSU under the supervision of Professor Eakalak Khan and co-guidance of Dr. Chaiwat Rongsayamanont. Mr. Chaipon Juntawang is working for the Ministry of Natural Resources and Environment of Thailand and received a scholarship from the Royal Thai Government to pursue his study in USA. He received his bachelor and master degrees in environmental engineering from Chiang Mai University, Thailand. The research work presented is part of Mr. Juntawang's Ph.D. dissertation.

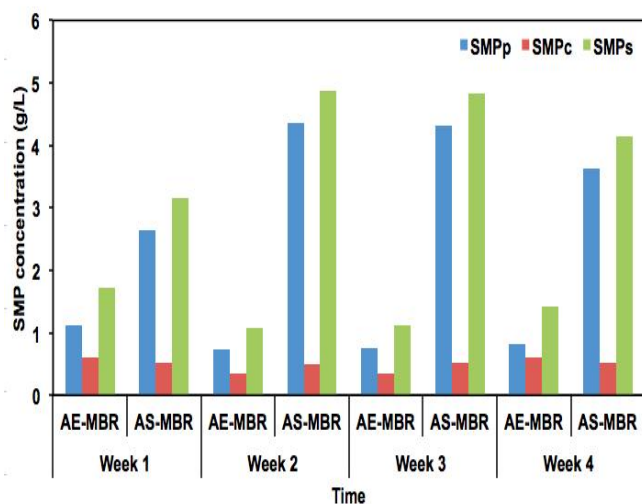


Figure 2. Protein and carbohydrate contents in SMPs from AE-MBR and AS-MBR.

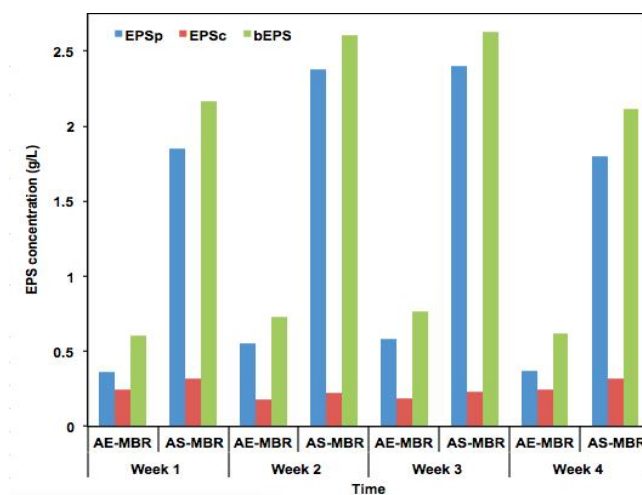


Figure 3. Protein and carbohydrate contents in bEPS from AE-MBR and AS-MBR.

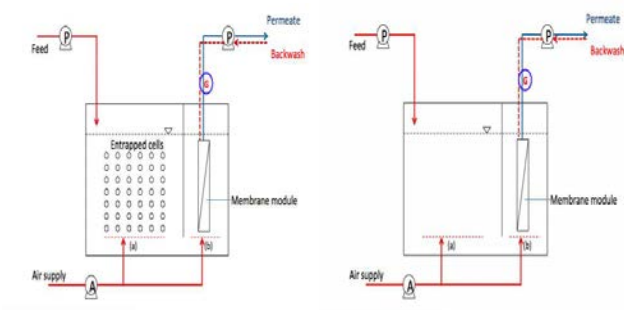


Figure 1. Schematic diagram of entrapped-cells-based MBR (AE-MBR, left) and suspended-cell-based MBR (AS-MBR, right).

Table 1. Operating conditions of entrapped-cells-based MBR.

| Parameters | Operation Conditions |
|--|----------------------|
| Temperature (°C) | 25.0 |
| pH | 7.0 |
| Trans-membrane pressure (kPa) | 30.0 |
| Feed concentration (mg COD/L) | 500.0 |
| Flux (L/m ² h) | 5.0 |
| Hydraulic retention time (HRT) (d) | 1 |
| Sludge retention time (SRT) (d) | 15 |
| Mixed liquor suspended solids (MLSS) (g/L) | 8.0 |
| Organic loading rate (ORL) (kg COD/m ³ d) | 4.0 |

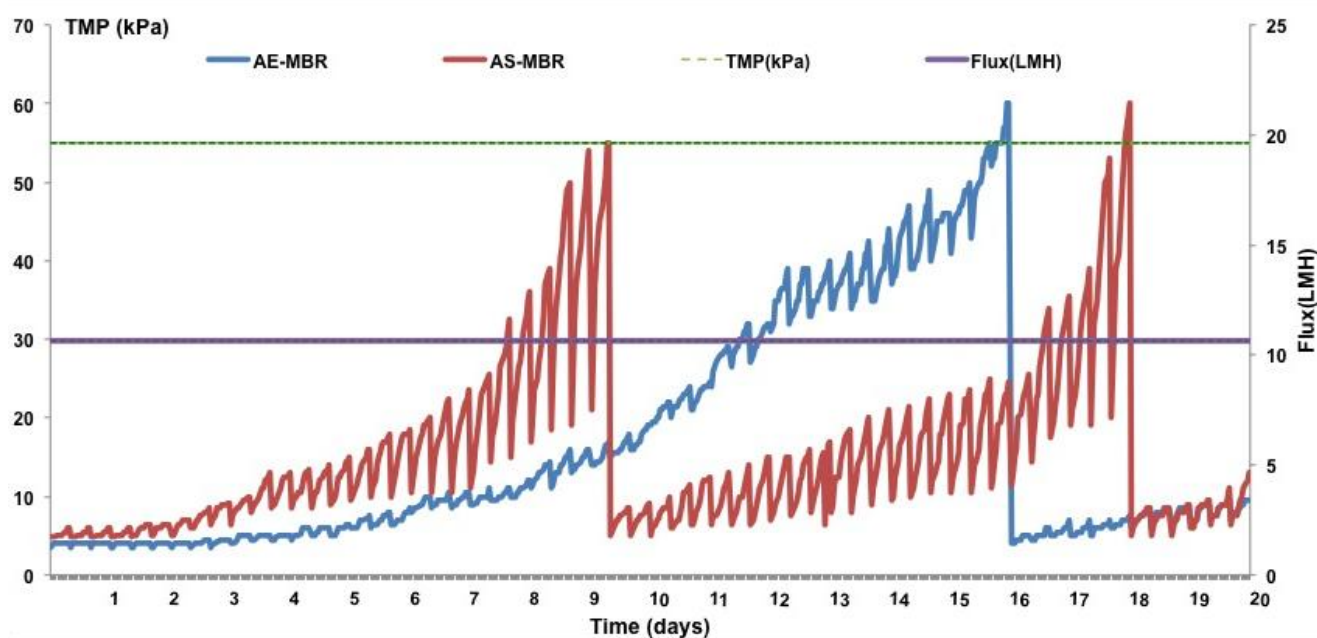


Figure 4. Permeate flux and transmembrane pressure monitoring for AE-MBR and AS-MBR.

Abundance and Activity of Ammonia Oxidizing Archaea in Drinking Plants and Distribution Systems

By Dhriti Roy, John McEvoy, Eakalak Khan North Dakota State University; Dan Overmoe Mayville Water Treatment Plant; Kristorfer Knutson Moorhead Public Service; and Murthy Kasi Moore Engineering

Nitrification is a widespread issue in drinking water distribution systems. Excess ammonia concentrations promote nitrification in the distribution systems, which is undesirable. From the perspective of regulatory compliance, a loss of the disinfectant residual is the most critical consequence of nitrification in the distribution systems.

The ammonia oxidation, the first step in nitrification, is performed by ammonia-oxidizing archaea (AOA) and bacteria (AOB). The recent studies have identified AOA as the main contributor to nitrification. The presence of AOA in the water treatment system (before and in the filter) may be beneficial for the removal of ammonia; however, their abundance and activity in the distribution system may lead to a loss of disinfectant residuals. It has been shown that distribution systems have AOA, but it is unclear whether their presence has any relationships with the type and level of disinfection particularly chlorine and chloramine. Water treatment plants in ND typically use chlorine and chloramine as secondary disinfectants to maintain disinfectant residuals in the distribution systems. No research has been conducted so far to compare the abundance and activity of AOA between chlorinated and chloraminated systems.

Dhriti collected water and biofilm samples once a month for a one-year period in three different water treatment plants (WTP) after various treatment processes: Mayville, N.D., Cooperstown, N.D. and Moorhead, Minn. Mayville WTP and Cooperstown WTP use chlorine as disinfectant and both have ammonia in their source water, whereas Moorhead WTP uses chloramine as disinfectant. Therefore, presence of chloramines is expected in the distribution systems for all three cities. She also collected water samples within the distribution systems in these three cities with sampling locations close to and far from the WTPs to represent various water age scenarios.

At the microbiological level, ammonia oxidation (or the first step in nitrification) by AOA and AOB is carried out through the release of necessary enzymes. Presence of a specific type of gene, *amoA* within AOA and AOB is responsible for the release of these important enzymes. Molecular and microbiological studies can identify which organism this gene in a sample belongs to, AOA or AOB. Therefore, DNA was extracted from the water and biofilm samples to conduct molecular and microbiological studies. Identifying the number of these genes can help in quantifying the numbers of AOA and AOB in water

samples in the treatment plants and the distribution systems. Quantitative polymerase chain reaction (qPCR), a molecular technique, was used to determine the absolute quantity of the *amoA* gene (Figure 1a-1e). While the above techniques can detect the presence and identify the quantity of each organism, they do not reveal which organism is responsible for ammonia oxidation. Another microbiological technique DNA-stable isotope probing (SIP), was used to determine if AOA cells contributed to ammonia removal.

The study showed the presence of AOA *amoA* in all three WTPs regardless of their disinfection process. In some cases, *amoA* corresponding to AOA outnumbered the *amoA* corresponding to AOB (Figure 2). So far, the results showed that the AOA *amoA* were higher in warm periods (March-September) than cold periods (October-February), but the quantity was less in the distribution systems than in the treatment plants.

The study provided the first comprehensive insight into the key ammonia oxidizing groups in full-scale WTPs based on the type of disinfection process. This first-time detection of AOA in both chlorinated and chloraminated distribution systems opens the scope to do more research in the nitrification process within the engineered systems. Although our current results showed the presence of AOA in both chlorinated and chloraminated, further investigation is needed to confirm the role of AOA in the ammonia conversion process in the distribution system. The DNA-SIP study is ongoing and will help us in understanding the role of AOA in ammonia oxidation within engineered systems.

It is important to understand the role of AOA in chlorinated and chloraminated distribution system in WTPs. An ongoing laboratory-based incubation study has been conducted to see the direct effect of AOA present in chlorinated and chloraminated water. The current research is at the preliminary stages and confined to the laboratory scale involving the use of expensive molecular tools. Future research and pilot scale experiments should focus on understanding the kinetics and determining the kinetic constants that will help in a better design and operation of water treatment facilities.

Dhriti Roy is a PhD student in the Environmental and Conservation Sciences program at North Dakota State University, Fargo, N.D. She received her Master's degree in Marine and Environmental Biology from Nicholls State University, Thibodaux, LA and her Bachelor's degree in Botany from Kalyani University, India. Her doctoral dissertation research is focused on understanding nitrification process by Ammonia oxidizing Archaea in engineered systems.

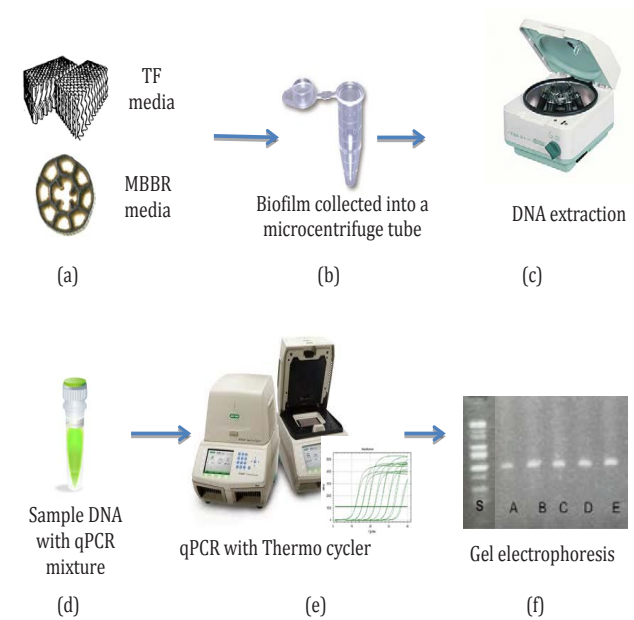


Figure 1. (above) Schematic of (a) & (b) sample collection, (c) DNA extraction, (d) & (e) qPCR protocol and (f) the results from gel electrophoresis. Gel electrophoresis shows DNA fragments from samples A, B, C, D and E. The location of these DNA fragments are compared with the bands on standard (S in Figure 1f) to confirm the presence of *amoA*.

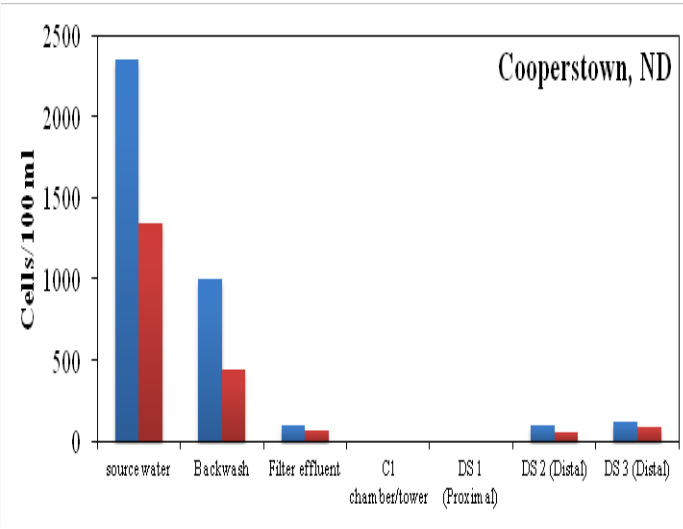
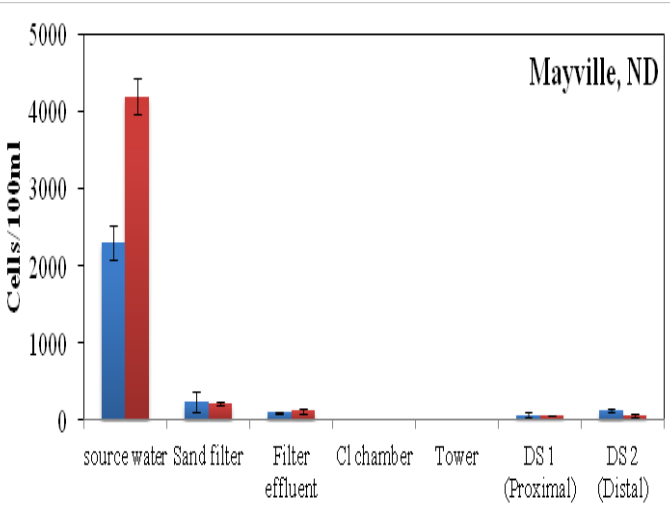
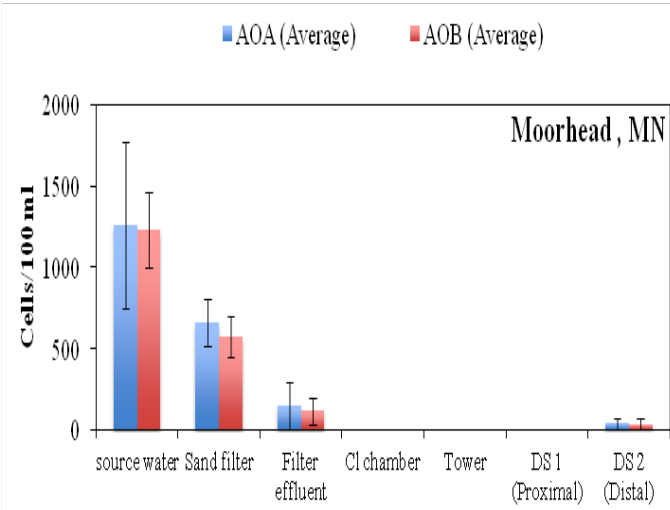


Figure 2 The data are the average of qPCR results for each sampling point found in Moorhead, Minn. for March–July, Mayville, N.D. from March–July and Cooperstown, N.D. for July only.

Getting to Know the Chair of the North Dakota Young Professionals:

Murthy Kasi



Murthy Kasi of Moore Engineering

Murthy Kasi received his Bachelor's degree in Civil Engineering from Andhra University, India, Master's degree in Environmental Engineering from South Dakota State University, Brookings, South Dakota, and Doctoral degree in Civil Engineering from North Dakota State University, Fargo, North Dakota.

- Please explain the following regarding your current employment: employer, position, job duties (area of expertise, field of interest, focus area, etc.)

I am currently working as a project engineer with Moore Engineering, Inc. in West Fargo, N.D. My work involves designing water and wastewater treatment processes and water reuse facilities; and modeling of water distribution systems, wastewater treatment systems, and receiving water quality. My areas of interest are nutrient removal and recovery, membrane treatment in water and wastewater treatment, and bioremediation of emerging contaminants.

- When did you join AWWA? How and why did you become involved in AWWA?

I joined AWWA in 2001 as a student member to learn what actually happens in the water industry. Credit goes to student chapter advisors during my Masters (Dr. Christopher Schmit) and Doctoral (Dr. Wei Lin) studies for their strong motivation and encouragement to join and take leadership roles.

- What are your current roles within AWWA? What is your position in those roles?

I am currently a Trustee on the Board of AWWA North Dakota Section and the Chair for North Dakota Water Young Professionals (ND WYP) Committee. My roles as a Trustee are to support the Section in reviewing budget, planning expenditures, and acting as a liaison between the Section and the YP Committee. As the Chair for the YP Committee, I serve as the central contact person to the Students, young professionals, boards of North Dakota American Water Works Association (ND AWWA) and North Dakota Water Environment Association (ND WEA), and other professionals in the environmental field, thereby bringing a distinct identification to students and YPs in the water industry.

- What is your motivation to be involved in professional organizations and committees?
My main motivation is the opportunity to learn and stay informed about the latest technology and regulations while being involved in the group activities and leadership roles. In addition, being involved in the committees has helped me connect with various professionals in the water industry across the country, which further broadened my understanding of water.

- As the first Chair of the new ND WYP committee, what are your goals starting out?

My major goal is to make ND WYP noted among the professionals and public in North Dakota as well as in the rest of the country as an upcoming and energetic group, which will encourage and attract new generations to take part in this respectful profession that strives to provide a clean and safe environment to the society.

- If you could tell someone only one thing about the water industry, what would it be?

As the saying goes "prevention is better than cure", and the water industry is such a profession that has been continuously striving hard to protect the public health and prevent illness by providing safe and hygienic conditions, thereby helping the community to reduce the struggle and expense from medical treatment.

- What is one misconception you think the public has about the water industry?

Public sees water industry as a black box, where "dirty" water is put in and "clean" water is taken out. This lack of understanding of the industry is not only diminishing the respect toward that industry, but also the value of the product ("clean" water) in the eyes of the consumer (public).

- How has your involvement in AWWA helped to grow or advance your career?

AWWA has been a great resource for developing my knowledge base in the industry with its publications, involvement in various committees, and technical conferences and networking with experts in the water industry. Involvement in AWWA has given an easy accessibility to all these resources, which has innately developed my professional skills and laid a strong foundation for a long and successful career in the future years.



Engineering
America

A 100% Employee-Owned Company

From Concept & Construction To Completion & Beyond

Engineering America Provides a One-Source Solution For Your Unique Storage Tank Application.

Our bolted tank design is the preferred dependable, versatile and **cost-effective** choice in wastewater treatment storage. Single-use applications range from stormwater runoff storage, equalization and trickling filters to sludge storage/mixing.

We've been building our tanks in North Dakota since 1980.

**We know the state of North Dakota and the state
of North Dakota knows us.**

Dickinson, North Dakota
(2) Aquastore Glass-Fused-to-Steel
Application: Sludge Storage
Capacity: 2 Million Gallons
Size: 120 ft. Diameter x 28 ft. Height
Installed: 2014
Installed by Engineering America

Multi-step Manufacturing Process | Engineering Integrity | Industry-Best Warranty | Our Own Crews
647 Hale Ave. N. Oakdale, MN 55128 | 651.777.4041 | www.EngAmerica.com
America's Employee-Owned Leader in Liquid Storage Tank Solutions

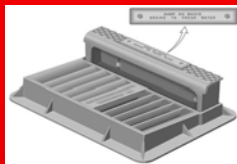
ESS BROTHERS & SONS, INC.

SERVING 6 GENERATIONS

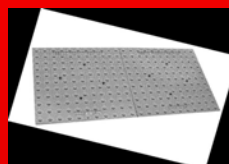
Manhole Castings



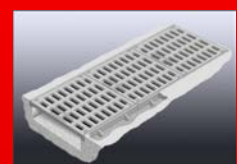
Catch Basin Castings



Truncated Domes



Trench Grating



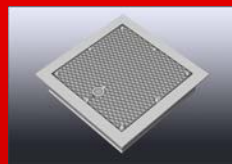
Paving Rings



Tree Grating



Access Hatches



Fabrication Products



Saw Blades



Infra Safe DCD



Sediment Collection Plates



CALL TODAY FOR THE ONE STOP SHOP ON ALL YOUR CONSTRUCTION NEEDS, GREAT CUSTOMER SERVICE AND WE DELIVER TOO!

MANHOLE INFILTRATION SOLUTIONS

Manhole Insert



Flex-Seal



Aqua Seal



Gator Wrap



Infi-Shield



Ess Brothers & Sons, Inc.— Construction Specialists for 145 Years!

9350 County Road 19 ♦ Loretto, MN 55357 ♦ 763-478-2027 ♦ www.essbrothers.com

**2014 CONFERENCE SPONSORS FOR DOOR PRIZES, SOCIAL HOUR,
COFFEE BREAKS AND GOLF TOURNAMENT
THANK YOU FOR YOUR CONTRIBUTION**

ABM Equipment & Supply, LLC
333 2nd St NE
Hopkins, MN 55343
952-938-5451

Ackerman-Estvold
1907 17th St SE
Minot, ND 58701
701-837-8737

AE₂S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201
701-746-8087

Apex Engineering Group
4733 Amber Valley Parkway S
Fargo, ND 58104
701-373-7980

Bartlett & West, Inc.
3456 E Century Ave
Bismarck ND 58503
800-474-4117

Bolton & Menk, Inc.
4165 S 30th Ave Ste 100
Fargo, ND 58104
701-566-5339

EJ Iron Works
3538 Rudolph Rd
Eau Claire, WI 54701
715-271-9014

Electric Pump, Inc.
1434 5th Ave N
Fargo, ND 58102
701-235-7500

Fargo Water Equipment/DSG
4557 15th Ave N
Fargo, ND 58102
701-237-0222

Hawkins, Inc.
2576A Industrial Dr
Washburn, ND 58577
701-462-8588

HD Supply Waterworks
407 72nd St SE
Minot, ND 58701
701-500-5016

Houston Engineering, Inc.
1401 21st Ave N
Fargo, ND 58102
701-237-5065

Hughes Lift Station Serv. Inc.
1809 55th Ave N
Moorhead, MN 56546
218-287-1579

Jet-Way Multiple Serv. Inc.
PO Box 131
Hardwood, ND 58042

Kadrmass, Lee, & Jackson
4585 Coleman St
Bismarck, ND 58502
701-355-8400

Killoran Trucking &
Brokerage, Inc.
PO Box 66
Tower, ND 58071
701-749-6190

Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078
701-499-5815

MVTL Laboratories, Inc.
2616 E Broadway Ave
Bismarck, ND 58501
701-258-9720

ND Sewage Pump & Lift
Station Serv. Co.
1734 Main Ave E
West Fargo, ND 58078
701-282-6760

Northern Pipe Products
1302 39th St NW
Fargo, ND 58102
701-282-7655

Sanitation Products, Inc.
1402 41st St N
Fargo, ND 58102
701-282-0296

Short-Elliott-Hendrickson,
Inc. (SEH)
3535 Vadnais Ctr Dr
St. Paul, MN 55110
651-490-2000

Stantec Consulting Services
2335 W Highway 36
St. Paul, MN 55113
651-604-4707

Team Lab
PO Box 1467
Detroit Lakes, MN 56501
218-846-9490

Vessco, Inc.
8217 Upland Circle
Chanhassen, MN 55317
952-941-2678

2014

SPONSORS



water for people

Platinum Sponsors

Ackerman-Estvold

KL&J

AE2S

Kodru-Mooney

Apex Engineering Group

Moore Engineering, Inc.

Bartlett & West

SEH

Bolton & Menk, Inc.

Treatment Resources, Inc.

Electric Pump

Vessco, Inc.

Houston Engineering

Gold Sponsors

Brock White Company

HDR, Inc.

DN Tanks

Interstate Engineering, Inc.

Energy & Environmental Research Center

Quality Flow System, Inc.

Fargo Water Equipment / DSG

Widseth Smith Nolting

Hawkins, Inc.

Silver Sponsors

City of Grafton Water Department

KLM Engineering, Inc.

City of Grand Forks Water Utility Staff

Sweeney Controls Company

Engineering America, Inc.

Team Lab

Greg and Lauri Wavra

Tom and Hazel Sletten

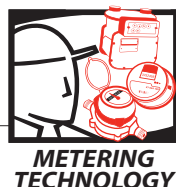
Keith and Beth Demke

Wells Concrete

Kemper Construction Co.

Wold Engineering, PC

When It Comes To Waterworks, There Can Be A Lot Of Pressure.



To succeed, you need a partner that makes your job easier. With DSG and Fargo Water Equipment, you get more than just pipe and products:

A Wider Distribution Network – With waterworks warehouse locations in Fargo, Sioux Falls, Rapid City and Bismarck, we can provide products where and when you need them.

The Most Experienced Waterworks Team In The Midwest – Our crew specializes in combining experience and innovation to offer you solutions for your challenging projects.

Whatever Your Situation, We Make Water Work – From water systems to industrial pumping applications, from storm water to metering, we're experienced and ready to make your job easier.

▶ **Contact us today to learn more about how we can help you.**



DSG
DAKOTA SUPPLY GROUP



Divisions of DSG

FARGO, ND ▶ (800) 342-4676
BISMARCK, ND ▶ (855) 337-9258
SIOUX FALLS, SD ▶ (800) 660-5531
RAPID CITY, SD ▶ (800) 660-5538
BURNSVILLE, MN ▶ (800) 325-0514

www.dakotasupplygroup.com

Arthur Sidney Bedell Award Winner

Congratulations Terry Rust!



Paul Bowen of the Water Environment Federation (left) congratulates Terry Rust of the City of West Fargo (right)

Arthur Sidney Bedell Award winner - Terry Rust

The Bedell Award was established to acknowledge extraordinary personal service to a member association. The award is named for Arthur Sidney Bedell, the second president of the Federation, who exemplified its purpose by his long devotion and service to the New York Water Environment Association.

Terry Rust is an active member on the North Dakota Water Environment Association (NDWEA) and the North Dakota Water & Pollution Control Conference (NDWPCC). He has given numerous presentations at the NDWPCC. He is a past president of the NDWEA and the NDWPCC. He has been on the NDWEA Operations and Safety Committee since 1995 and is a past Professional Wastewater Operator representative. He is a certified wastewater collections operator and wastewater treatment plant operator. He currently works for the City of West Fargo managing the City of West Fargo wastewater lab, wastewater treatment plant and the Industrial Pretreatment Program.

Young Professional of the Year

Congratulations Meredith Quinn!



Meredith Quinn (right) receives the Young Professional of the Year award from the Chair of the North Dakota Young Professionals Committee, Murthy Kasi (left)

Meredith Quinn has been named the Young Professional of the Year by the North Dakota Water Young Professionals Committee (NDWYP). She received the award at the North Dakota Water and Pollution Control Conference (NDWPCC) in Fargo. Meredith has held and presently holds positions of leadership in ND American Water Works Association (AWWA) and AWWA YP of North Dakota. She has strived for the benefit and promotion of involvement of students and young professionals in the water industry. Her contributions have been greatly recognized by the AWWA, and she was awarded the George Warren Fuller Award in 2012. Meredith Quinn is a project engineer with Advanced Engineering and Environmental Services, Inc.

The Young Professional of the Year Award was introduced by the NDWYP in 2014 to recognize the contributions of a young professional in the state of North Dakota whose service and achievements are exceptional for their years of service. The award is given annually to one young professional member of an organization active in the NDWPCC. YPs can be nominated by their fellow members of the NDWPCC organizations for this award. Nominees are judged based on their demonstrated commitment to the organization by participation in professional meetings, committees, events, and activities, and who provide a positive service to the community and profession by way of good fellowship, leadership, and commitment. For more details on this award, please contact Murthy Kasi at mkasi@mooreengineeringinc.com.



Manhole & Catch Basin Castings,
Manhole Adjustment Rings,
Trench & Tree Grating,
Complete Metal Fabrication
Inlet Protection
I/I Prevention

www.essbrothers.com

TRENT ESS

Trent@essbrothers.com

9350 County Road 19
Corcoran/Loretto, MN 55357
Office 763-478-2027
Cell 612-309-1566
Toll Free 1-800-478-2027
Fax 763-478-8868

JET-WAY MULTIPLE SERVICES, INC.

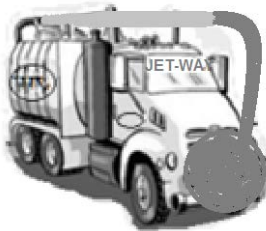
PH. 701-282-2356



FX. 701-282-2423

1-800-378-5606

SERVICES



- * SEWER CLEANING
 - SANITARY OR STORM
- * LIFT STATION CLEANING
- * WATER TREATMENT PLANT CLEANING
 - VACUUMING AND REMOVAL OF SAND
- * WASTE TREATMENT PLANT CLEANING
- * TANK CLEANING
 - DEWATERING ROLL-OFFS
 - LIQUID WASTE ROLL-OFFS
 - SOLID WASTE ROLL-OFFS
- * INDUSTRIAL WATERBLASTING
 - UP TO 40,000 PSI
- * PRESSURE WASHING
- * OPEN FROZEN PIPES AND CULVERTS
- * INDUSTRIAL VACUUMING
 - VACUUMING OF SOLID OR LIQUID WASTE
 - VACUUM DUST
 - ABLE TO RECYCLE VACUUMED MATERIAL
- * HYDRO EXCAVATING
- * JETTING SERVICES
- * JET-VAC SERVICES
- * EASEMENT MACHINE FOR REMOTE AREAS
- * DRY-ICE BLASTING
- * ROUTINE MAINTENANCE
- * CULVERT CLEANING
- * ADVANCED COMPUTERIZED TELEVISION
 - MOST ADVANCED TELEVISION SYSTEM

WWW.JET-WAYINC.COM

JETWAYINC@AOL.COM

**DESK REFERENCE GUIDE
EXHIBITORS IN THE TABLETOP DISPLAY PROGRAM**

OCTOBER 14, 2014, 7:30 a.m. to 11:30 a.m.

| | | |
|---|---|--|
| North Dakota Section of the American Water Works Association Water Taste Test Contest | Paxxo Inc. 1924 Millard Farmer Rd Newman, GA 30263 770-502-0055 | Vessco, Inc. 8217 Upland Cr Chanhassen, MN 55318 952-941-2678 |
| North Dakota Section of the American Water Works Association Water for People | Electric Pump, Inc. 1434 5 th Ave N Fargo, ND 58102 701-235-7500 | Hawkins, Inc. 2576A Industrial Dr Washburn, ND 58577 701-462-8588 |
| North Dakota Chapter of the American Public Works Association | Ferguson Waterworks 1917 1 st Ave N Fargo, ND 58102 701-293-5511 | NDSU 515 ½ E Broadway, Ste 101 Bismarck, ND 58501 701-328-9857 |
| North Dakota Water Environment Association | EJ Iron Works 3538 Rudolph Rd Eau Claire, WI 54701 715-271-9014 | Leggette & Brashears & Graham, Inc. 8 Pine Tree Dr Ste 250 St. Paul, MN 55112 651-558-9216 |
| North Dakota Chapter of the North American Stormwater and Erosion Control Association | Construction Specialties 7100 Utica Ln Chanhassen MN 55317 612-860-0803 | Quality Flow Systems, Inc. 800 6 th St NW New Prague, MN 56071 952-758-9445 |
| Thein Well Co. PO Box 778 Spicer, MN 56288 800-450-8000 | General Repair Services, Inc. 3535 International Dr Vadnais Heights, MN 55110 701-219-3976 | Infratech 21040 Commerce Blvd Rogers, MN 55374 763-428-6488 |
| Brock White Co. 1425 41 st St N Fargo, ND 58102 701-282-9255 | Tech Sales Co. 311 W 44 th St Minneapolis, MN 55409 612-823-8238 | Apex Engineering Group 4733 Amber Valley Parkway S Fargo, ND 58104 701-373-7980 |
| Kadrmars, Lee & Jackson 4585 Coleman St Bismarck, ND 58502 701-355-8790 | Ackerman-Estvold 1907 17 th St SE Minot, ND 58701 701-837-8737 | AE2S 4050 Garden View Dr Ste 200 Grand Forks, ND 58201 701-746-8087 |
| ND Rural Water Systems Association 2718 Gateway Ave Ste 201 Bismarck, ND 58503 701-258-9249 | Utility Service Co, Inc. PO Box 1350 Perry, GA 31069 800-223-3695 | Moore Engineering, Inc. 925 10 th Ave E West Fargo, ND 58078 701-551-1054 |
| Ulteig Engineers, Inc. 3350 38 th Ave S Fargo, ND 58104 701-451-8323 | Visu-Sewer, Inc. 3155 104 th Lane NE Blaine, MN 55449 763-252-0004 | Advanced Drainage Systems 6582 County Rd 4W SW Alexandria, MN 56308 320-815-2415 |
| Great Northern Env. 643 Hale Ave N Oakdale, MN 55128 651-289-9100 | | |

Sanitation Products, Inc.
1402 41st St N
Fargo, ND 58102
701-282-0296

S. Roberts Company
17575 Bearpath Tr
Eden Prairie, MN 55347
952-949-2655

Fischer, Harris & Associates
5865 Neal Ave N Ste 335
Stillwater, MN 55082
651-274-8506

Team Lab
PO Box 1467
Detroit Lakes, MN 56501
218-846-9490

ESS Brothers & Son, Inc.
9350 County Rd 19
Loretto, MN 55357
763-478-2027

KLM Engineering, Inc.
PO Box 897
Lake Elmo, MN 55042
651-773-5111

HD Supply Waterworks
407 72nd St SE
Minot, ND 58701
701-852-6878

Kodru-Equipment, Inc.
3650 N Chestnut St Ste 102
Chaska, MN 55318
952-479-1045

Dakota Pump & Control
705 Quadee Dr SW
Watertown, SD 57201
605-886-4672

Fargo Water Equipment/DSG
4557 15th Ave N
Fargo, ND 58102
701-237-0222

Treatment Resources, Inc.
11670 Fountains Dr Ste 200
Minneapolis, MN 55369
651-702-2692

Prinsco
1717 16th St NE
Willmar, MN 56201
320-222-6800

Bolton & Menk, Inc.
4165 S 30th Ave Ste 100
Fargo, ND 58104
701-566-5339

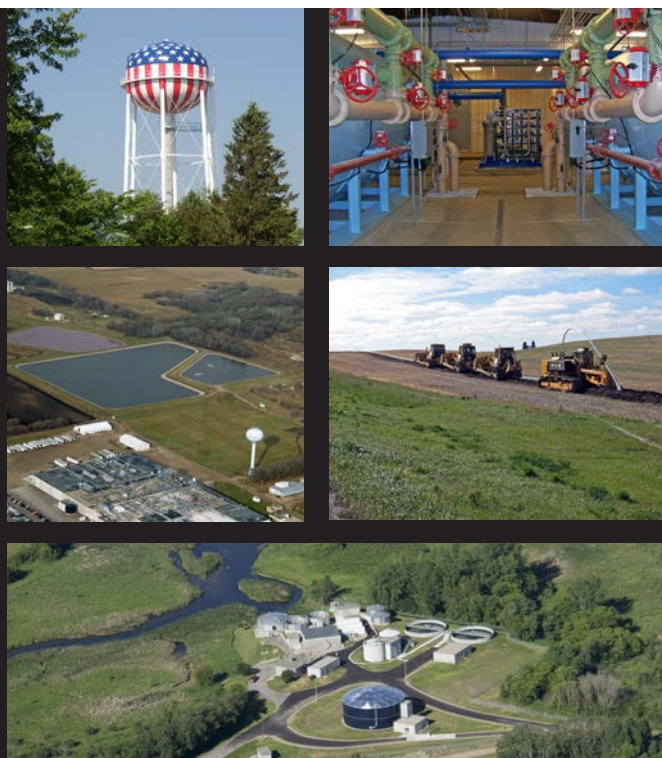
Flexible Pipe Tool Company
30577 Pearl Dr
St. Joseph, MN 56320
320-363-7552

Short-Elliott-Hendrickson, Inc. (SEH)
3535 Vadnais Ctr Dr
St. Paul, MN 55110
651-490-2000



Water Resource Engineering
Solid Waste
Municipal Engineering
Environmental Engineering
Land & Oilfield Surveying

Water Systems Engineering
Transportation Engineering
Site Design
GIS
Structural Engineering



Professionals you need, people you trust.

North Dakota | Minnesota | Montana | South Dakota

www.interstateeng.com

Northern Pipe Products
1302 39th St NW
Fargo, ND 58102
701-282-7655

Interstate Engineering, Inc.
PO Box 2035
Jamestown, ND 58401
701-252-0234

Stantec Consulting Services Inc.
2335 W Hwy 36
St. Paul, MN 55113
651-604-4707

Houston Engineering, Inc.
1401 21st Ave N
Fargo, ND 58102
701-323-0200

Wells Concrete
5000 Demers Ave
Grand Forks, ND 58201
701-772-6687

ABM Equipment & Supply
333 2nd St NE
Hopkins, MN 55343
952-938-5451

Tnemec Co
Coating Resources, Inc.
625 St. Louis St Ste 12
Hopkins, MN 55343
952-746-1909

Widseth Smith Nolting
2850 24th Ave S
Grand Forks, ND 58201
701-795-1975

ND Sewage Pump & Lift Station
1734 Main Ave E
West Fargo, ND 58078
701-282-6760

Sensus USA
5227 Brook View Ave
Des Moines, IA 50317
515-265-2738

Bartlett & West Engineers, Inc.
3456 E Century Ave
Bismarck, ND 58503
701-258-1110

Veit & Company, Inc.
14000 Veit Place
Rogers, MN 55374
763-428-2242

DN Tanks
4247 Grove Ave
Gurnee, IL 60031
847-782-0357

RMB Environmental Labs. Inc.
22796 County Hwy 6
Detroit Lakes, MN 56501
218-846-1465

Red Flint Sand & Gravel, LLC
One American Blvd
Eau Claire, WI 54701
715-855-7600

Larson Data Communications,
Inc.
220 S Kimball St
Mitchell, SD 57301
605-996-5521

Specialty Systems Products
4605 Vallacher Ave
Minneapolis, MN 55416
952-852-9545

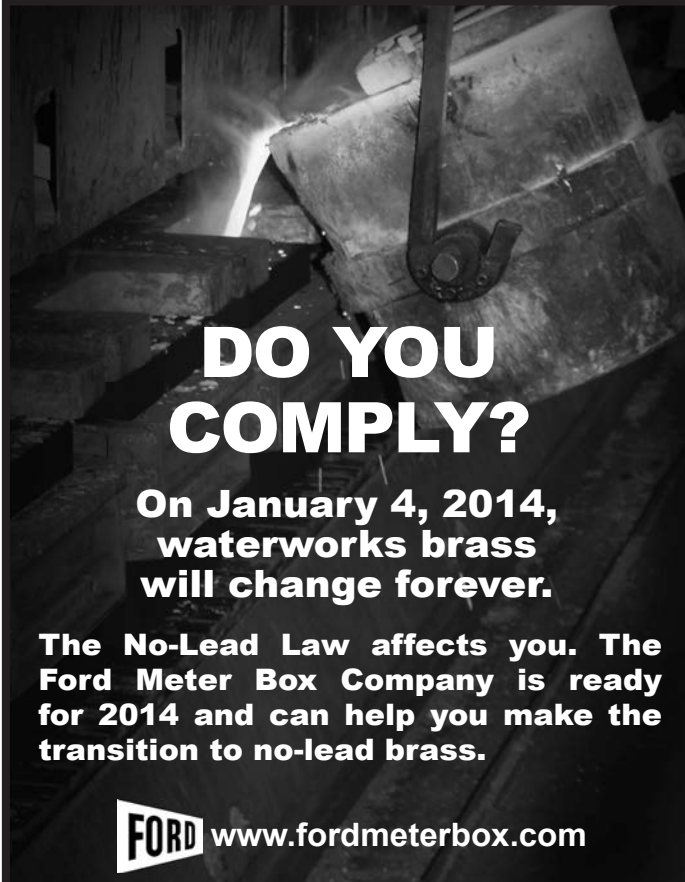
Engineered Sales Company
8912 Wentworth Ave S
Bloomington, MN 55420
952-888-1131

Granse/Trio Sales, LLC
21670 Hamburg Ave
Lakeville, MN 55044
952-469-2191

SRF-Consulting Group
1105 16th St SW
Minot, ND 58701
701-354-2453

Integrated Process Solutions (IPS),
Inc.
PO Box 26
Fosston, MN 56542
218-435-1703

MVTL Laboratories, Inc.
2616 E Broadway Ave
Bismarck, ND 58501
701-258-9720



**DO YOU
COMPLY?**

**On January 4, 2014,
waterworks brass
will change forever.**

**The No-Lead Law affects you. The
Ford Meter Box Company is ready
for 2014 and can help you make the
transition to no-lead brass.**

FORD www.fordmeterbox.com

George Warren Fuller Award Recipient

Greg Wavra is the 2014 recipient of the American Water Works Association's (AWWA) George Warren Fuller Award. Greg works as the Program Manager for the Drinking Water Program at the North Dakota Department of Health. The award is presented annually to an AWWA member for his/her distinguished service to the water supply field in commemoration of the skill and constructive leadership which characterized the life of George Warren Fuller. Greg is currently serving on the Assistant Secretary-Treasurer for the North Dakota Section of AWWA.



Brenda Lennox (left) congratulates Greg Wavra (right).

Helping communities tap into water's potential

Design with community in mind
stantec.com



NDWPCC 2014 Resolutions

RESOLUTION

WHEREAS, the city of Fargo through their Officials and Local Arrangements Committee has gone to considerable work and effort in making this Joint Meeting with the North Dakota Chapter of the American Public Works Association, the North Dakota Water Environment Association, the North Dakota Section of the American Water Works Association, and the North Dakota Chapter of the North American Stormwater and Erosion Control Association not only a successful one, but an enjoyable one, especially through the spirit of welcome and friendliness shown, the splendid hospitality, banquet, and other arrangements:

NOW THEREFORE, BE IT RESOLVED, that the 86th Annual Conference of the North Dakota Water and Pollution Control Conference, the 55th Annual Conference of the North Dakota Water Environment Association, the 59th Annual Conference of the North Dakota Chapter of the American Public Works Association, the 24th Annual Conference of the North Dakota Section of the American Water Works Association, and the 2nd Annual Conference of the North Dakota Chapter of the North American Stormwater and Erosion Control Association here assembled, do express their heartfelt thanks and appreciation to the following individuals who have contributed toward making the Joint Meeting a success:

| | | |
|-----------------|--------------|---------------|
| Wayne Offerdahl | Dean Sletten | Mark Blonigen |
| Mark Peterson | Kellen Grubb | Jim Hausauer |
| Kathy Redfield | Seth Lynne | Don Tucker |
| Karla Olson | Dustin Dale | Bruce Grubb |
| Eric Dodds | | |

Dated at Fargo, North Dakota, this 16th day of October 2014.

Secretary/Treasurer
Mike Brisben



RESOLUTION

WHEREAS, considerable time is expended by the Municipal Facilities and Water Quality Divisions of the North Dakota Department of Health in furthering Conference development, aims, and purposes;

NOW, THEREFORE, BE IT RESOLVED that the 86th Annual Conference of the North Dakota Water and Pollution Control Conference, the 55th Annual Conference of the North Dakota Water Environment Association, the 59th Annual Conference of the North Dakota Chapter of the American Public Works Association, the 24th Annual Conference of the North Dakota Section of the American Water Works Association, and the 2nd Annual Conference of the North Dakota Chapter of the North American Stormwater and Erosion Control Association here assembled, do express their heartfelt thanks and appreciation to the North Dakota Department of Health for the work that has been done, and especially to the Municipal Facilities and Water Quality Divisions for furthering the activities of the Conference, for their work on the *Official Bulletin*, and for their assistance in organizing the Water and Wastewater Operators' Training Sessions each year.

Dated at Fargo, North Dakota, this 16th day of October 2014.

Secretary/Treasurer
Mike Brisben



RESOLUTION

WHEREAS, the North Dakota Water and Pollution Control Conference in its annual business meeting recognizes that the Water and Wastewater Operators' Training Sessions sponsored jointly by the Conference, the North Dakota Water Environment Association, the North Dakota Chapter of the American Public Works Association, the North Dakota Section of the American Water Works Association, and the North Dakota Department of Health were very successful and were of benefit to those attending and that the sponsoring organizations are desirous of continuing these training sessions;

NOW, THEREFORE, BE IT RESOLVED that the 86th Annual Conference of the North Dakota Water and Pollution Control Conference, the 55th Annual Conference of the North Dakota Water Environment Association, the 59th Annual Conference of the North Dakota Chapter of the American Public Works Association, the 24th Annual Conference of the North Dakota Section of the American Water Works Association, and the 2nd Annual Conference of the North Dakota Chapter of the North American Stormwater and Erosion Control Association here assembled, do express their thanks and appreciation to the North Dakota Department of Health and the staff of its Municipal Facilities and Water Quality Divisions, who have contributed toward making these training sessions a success.

Dated at Fargo, North Dakota, this 16th day of October 2014.

Secretary/Treasurer
Mike Brisben

RESOLUTION

WHEREAS, considerable time has been expended and expense incurred by Michael Quamme of Apex Engineering Group in his position as Associate Director of the North Dakota Water and Pollution Control Conference during the past year, and in making this Joint Meeting with the North Dakota Water Environment Association, the North Dakota Chapter of the American Public Works Association, the North Dakota Section of the American Water Works Association, and the North Dakota Chapter of the North American Stormwater and Erosion Control Association both a successful and enjoyable one;

NOW, THEREFORE, BE IT RESOLVED that the 86th Annual Conference of the North Dakota Water and Pollution Control Conference, the 55th Annual Conference of the North Dakota Water Environment Association, the 59th Annual Conference of the North Dakota Chapter of the American Public Works Association, the 24th Annual Conference of the North Dakota Section of the American Water Works Association, and the 2nd Annual Conference of the North Dakota Chapter of the North American Stormwater and Erosion Control Association here assembled, do express their heartfelt thanks and appreciation to Michael and that the Secretary be instructed to forward to him a copy of this Resolution.

Dated at Fargo, North Dakota, this 16th day of October 2014.

Secretary/Treasurer
Mike Brisben



Christopher J. Pettigrew
Sales Manager - Longofill

Mobile: 678.340.9725
chris.pettigrew@paxxo.com

PAXXO (USA) INC.
1924 Millard Farmer Road
Newnan, Georgia 30263
Phone: 770.502.0055
Fax: 770.502.0088
www.paxxo.com

BILL HUGHES

HOME (218) 287-1138
BUS: (218) 287-1579

HUGHES LIFT STATION SERVICE INC.

COMPLETE SEWAGE LIFT STATION
REPAIR AND SERVICE

1809 55TH AVE. N.

MOORHEAD, MN 56560



**Water supply and treatment,
wastewater collection and treatment,
municipal engineering, water resources
engineering, land surveying and mapping.**



4165 South 30th Avenue, Suite 100
Fargo, ND 58104 | 701-566-5339
www.bolton-menk.com | Fourteen offices serving the Upper Midwest

DESIGNING FOR A BETTER TOMORROW

2014 Conference Attendance List

Andrew Aakre
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Jeremy Aasen
City of Thompson
PO Box 266
Thompson, ND 58278

Chuck Abel
ND Department of Health
918 E Divide Ave, 3rd Fl.
Bismarck, ND 58501

Steve Ahlschlager
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Maria Amundson
City of Moorhead
PO Box 779
Moorhead, MN 56561

Matt Amundson
City of Fargo/Fargo Cass
Public Health
435 14th Ave S
Fargo, ND 58103

Charlie Anderson
Integrated Process
Solutions (I.P.S.), Inc.
PO Box 26
Fosston, MN 56542

Doug Anderson
Dakota Pump & Control
705 Quadee Dr SW
PO Box 725
Watertown, SD 57201

Lee Anderson
City of Fargo
402 23rd St N
Fargo, ND 58102

Justin Andre
North Prairie Rural Water
District
425 6th St SW
Minot, ND 58701

Lisa Ansley
AE₂S
1815 Schafer St.
Bismarck, ND 58501

Lori Arnold
Integrated Process
Solutions, Inc.
PO Box 26
Fosston, MN 56542

David Auch
City of Mandan
4090 Sunny Dr S
Mandan, ND 58554

Jacqueline Aucker
City of Minot
PO Box 5006
Minot, ND 58702

Kevin Bachman
USAF-Minot
1400 Appaloosa Way NE
Minot, ND 58703

Brett Bailly
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Jerry Balbach
MVTL
1126 N Front Street
New Ulm, MN 56073

Craig Bartholomay
ND Department of Health
918 E Divide Ave, 3rd Fl
Bismarck, ND 58501

Ryan Baum
Utility Service Co., Inc.
PO Box 1350
Perry, GA 31069

Russ Baumgardner
City of Fargo
402 23rd St N
Fargo, ND 58102

Abbie Beaudry
AE₂S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Rodney Beck
USDA, Rural Development
PO Box 1737
Bismarck, ND 58502

Chad Beltrand
Vesso, Inc.
8217 Upland Circle
Chanhassen, MN 55318

Jerry Bents
Houston Engineering, Inc.
1401 21st Ave. S.
Fargo, ND 58102

Justin Benz
City of Beulah
PO Box 910
Beulah, ND 58523

Paul Bercier
USAF - Minot
511 36th Ave NE
Minot, ND 58703

Jason Berg
HD Supply Waterworks
407 72nd St SE
Minot,, ND 58701

Mike Berg
Apex Engineering Group
600 S 2nd St Ste 145
Bismarck, ND 58504

Brian Bergantine
AE₂S
3101 Frontage Rd
Moorhead, MN 56560

Kenny Bergstrom
City of Williston
809 5th St E
PO Box 2437
Williston, ND 58801

Rick Berndt
City of Wahpeton
1900 4th St N
Wahpeton, ND 58075

Nick Beste
AE₂S
PO Box 453
Watford City, ND 55854

Peter Bilstad
City of Fargo
909 Southwood Dr
Fargo, ND 58103

Mark Bittner
City of Fargo
200 N 3rd St
Fargo, ND 58102



Jeff Blakely
American Ductile Iron
Pipe
21695 Highview Ave
Lakeville, MN 55044

Mark Blonigen
City of Fargo
3400 N Broadway
Fargo, ND 58102

Terry Boehm
Kadmas, Lee & Jackson
4585 Coleman St
PO Box 1157
Bismarck, ND 58502

Greg Boppre
Widseth Smith Nolting
2850 24th Ave. S.
Grand Forks, ND 58201

Samir Bouzrara
Specialty Systems
Products
4605 Vallacher Ave
St. Louis Park, MN 55416

Paul Bowen
Coca-Cola Company
1 Coca-Cola Plz NW
Atlanta, GA 30313

Marlin Brandt
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Nick Brehm
City of Cando
902 7th St
Cando, ND 58324

Mark Brinker
Flexible Pipe Tool Co.
30577 Pearl Dr
St. Joseph, MN 56374

Mike Brisben
ND Department of Health
918 E Divide Ave, 3rd Fl.
Bismarck, ND 58501

Barrett Brown
ND Department of Health
918 E Divide Ave, 3rd Fl.
Bismarck, ND 58501

Jeffrey Bryson
City of Williston
4824 Hwy 85
Williston, ND 58801

Dave Buchholz
City of Fargo
435 14th Ave S
Fargo, ND 58102

Kevin Bucholz
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Jim Buffington
Cargill Inc.
1203 14th Ave N
Wahpeton, ND 58075

Mel Bullinger
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Steve Burian
AE₂S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Anthony Burianek
City of Grafton
PO Box 578
Grafton, ND 58237

Todd Butz
Treatment Resources, Inc.
11670 Fountains Dr,
Ste 200
Minneapolis, MN 55369

Zanna Campbell
Bartlett & West, Inc.
1808 Masterson Ave
Bismarck, ND 58501

Lee Cariveau
Widseth Smith Nolting
2850 24th Ave S
Grand Forks, ND 58201

Tim Carlson
Mainsail Global
1700 67th Ave N
Minneapolis, MN 55430

Patricia Carman
ND Department of Health
918 E Divide Ave, 3rd Fl.
Bismarck, ND 58501

Qigang Chang
AE₂S
3101 Frontage Rd
Moorhead, MN 56560

Jarrold Christen
Ulteig Engineers, Inc.
14879 Woodland Dr
Detroit Lakes, MN 56501

David Christianson
Great River Energy
2875 3rd St SW
Underwood, ND 58576

Kurt Christianson
City of Minot
515 2nd Ave SW
PO Box 5006
Minot, ND 58702

Roger Clay
S.R.F. Consulting Group
1105 16th St SW
Minot, ND 58701

Mervyn Conroy
Granse/Trio Sales, LLC
21670 Hamburg Ave
Lakeville, MN 55044

Dean Corcoran
City of Fargo
402 23rd St N
Fargo, ND 58102

Brandon Cozzi
City of Bismarck
615 River Rd
Bismarck, ND 58504



Consulting Engineers & Land Surveyors

Bottineau (701) 228-2292
Bismarck (701) 258-9227
Minot (701) 852-0338
Email: wold@woldengr.com

Shane Crompton
City of Fargo
1625 145th St
Hendrum, MN 56550

Brad Cutler
Sensus USA
5227 Brook View Ave
Des Moines, IA 50317

Robin Dahlgren
City of Wahpeton
1900 N 4th St.
Wahpeton, ND 58075

Dustin Dale
AE₂S
3101 Frontage Rd
Moorhead, MN 56560

Christopher Daniels
People Service, Inc.
5036 Middlebrook
Rochester, MN 55901

Peter Daniels
Wench Associates
1800 Pioneer Creek Center
Maple Plain, MN 55359

Susan Danzl
Short-Elliott-Hendrickson
10901 Red Circle Dr
Ste 300
Minnetonka, MN 55343

Greg Davis
Environmental Protection
Agency
1595 Wynkoop St.
Denver, CO 80202

Dana Debele
City of Fargo
402 23rd St N
Fargo, ND 58102

Jeremy Deitz
City of Grand Forks
2516 Crescent Dr
Grand Forks, ND 58201

Keith Demke
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Ken Demmons
HDR Engineering, Inc.
51 N Broadway Ste 550
Fargo, ND 58078

Rock Desautel
City of Grafton
PO Box 129
Grafton, ND 58237

Brian Dewolf
Vessco, Inc.
8217 Upland Circle
Chanhassen, MN 55318

Travis Dillman
Interstate Engineering, Inc.
309 21st Ave NE
Jamestown, ND 58401

Eric Dodds
AE₂S
3170 43rd St S Ste 100
Fargo, ND 58201

Dave Dodge
Fischer, Harris &
Associates
5865 Neal Ave N Ste 335
Stillwater, MN 55082

Lyle Dollinger
City of Fargo
402 23rd St N
Fargo, ND 58102

Abbi Dorn
Ackerman-Estvold
1907 17th St SE
Minot, ND 58701

Joe Dubel
Ackerman-Estvold
107 Main St
Williston, ND 58801

Richard Edgar
Wells Concrete
5000 DeMers Ave
Grand Forks, ND 58201

Tracy Ekola
Short-Elliott-Hendrickson
3535 Vadnais Center Dr
St. Paul, MN 55110

Mike Ell
ND Department of Health
918 E Divide Ave, 4th Fl
Bismarck, ND 58501

Harlan Engberg
Ackerman-Estvold
107 Main St
Williston, ND 58801

Mark Enochs
Parsons Engineered
Products, Inc.
3574 Clare Downs Path
Rosemount, MN 55068

Brent Erickson
HDR Engineering, Inc.
4503 Coleman St.
Bismarck, ND 58503

Matt Erickson
KLM Engineering, Inc.
PO Box 897
Lake Elmo, MN 55042

Tracy Eslinger
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Dustin Fanfulik
Widseth Smith Nolting
2850 24th Ave S
Ste. 201
PO Box 14546
Grand Forks, ND 58208

Justin Feld
ND Department of Health
918 E Divide Ave, 3rd Fl.
Bismarck, ND 58501

John Ferguson
City of Grand Forks - WTP
PO Box 5200
Grand Forks, ND 58206


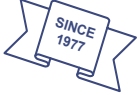

Lydia Fewless
ND Department of Health
918 E Divide Ave, 3rd Fl
Bismarck, ND 58501

Anthony Fisher
City of Jamestown
102 3rd Ave S.E.
Jamestown, ND 58401

John Fisher
Short-Elliott-Hendrickson
3535 Vadnais Ctr Dr
St. Paul, MN 55110

Shannon Fisher
ND Department of Health
918 E Divide Ave, 3rd Fl
Bismarck, ND 58501

Cathy Fisk
City of Michigan
PO Box 226
Michigan, ND 58259



Solving your everyday wastewater problems with "INNOVATIVE SOLUTIONS"

Get the MUCK out!

Do you have:

- Grease Problems?
- Sludge Buildup?
- High BODs - High TSS?
- Aquatic Weeds?
- Algae Growth?

TEAM LABORATORY CHEMICAL CORP.
Phone: 800-522-8326 • Web: www.teamlab.net • Email: sales@teamlab.net

Todd Flynn
City of Ellendale
PO Box 267
Ellendale, ND 58436

Mike Foertsch
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Tim Folden
City of Sawyer
PO Box 227
Sawyer, ND 58781

Todd Forbord
City of Grafton
PO Box 578
Grafton, ND 58237

Bruce Ford
City of Cando
PO Box 396
Cando, ND 58324

Don Francis
ABM Equipment & Supply
333 2nd St NE
Hopkins, MN 55343

Matt Fredrickson
City of Fargo
402 23rd St N
Fargo, ND 58102

John Freeman
City of West Fargo
800 4th Ave E
West Fargo, ND 58078

Tim Freije
North Dakota State Water
Commission
900 E Boulevard Ave
Bismarck, ND 58505

Bob French
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Curt Frey
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Duane Friesz
City of Mandan
1994 38th St
Mandan, ND 58554

Matt Fritze
Great Northern Env.
643 Hale Ave N
Oakdale, MN 55128

Jeron Fueller
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Todd Fugere
City of Fargo
402 23rd St N
Fargo, ND 58102

Richard Fuller, Jr.
ND Sewage Pump & Lift
Station
1734 Main Ave E
West Fargo, ND 58078

Shawn Gaddie
AE₂S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Doug Gahner
City of Fargo
402 23rd St N
Fargo, ND 58102

Mark Garrison
East Jordan Iron Works
3538 Rudolph Rd
Eau Claire, WI 54701

Dan Gatzke
Fargo Water Equipment/
Dakota Supply Group
4557 15th Ave. N
Fargo, ND 58102

Darlene Germain
ND Department of Health
918 E Divide Ave, 3rd Fl.
Bismarck, ND 58501

Jack Getz
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Erik Gilbertson
Kadrmass, Lee & Jackson
1010 4th Ave. SW
PO Box 937
Valley City, ND 58072

Rick Gillund
City of Enderlin
112 9th Ave.
Enderlin, ND 58027

Barry Glienke
Bolton & Menk, Inc.
4165 S 30th Ave.
Ste. 100
Fargo, ND 58104

Nick Gludt
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

John Goetz
City of Grand Forks - WTP
PO Box 5200
Grand Forks, ND 58206

Allen Grasser
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Jordan Grasser
AE₂S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Stephanie Gray
AE₂S
1815 Schafer St, Ste 301
Bismarck, ND 58501

Dallas Grossman
ND Department of Health
918 E Divide Ave, 4th Fl.
Bismarck, ND 58501

Bruce Grubb
City of Fargo
435 14th Ave S
Fargo, ND 58102

Jason Grzadzieleski
City of Bismarck
PO Box 5503
Bismarck, ND 58206

Mac Hall
AE₂S
103 1st Ave W Ste 300
Dickinson, ND 58601

Mike Hall
Lake Metigoshe Rec. Serv.
332 Lake Metigoshe Park
Bottineau, ND 58318

Troy Hall
City of Fargo
435 14th Ave S
Fargo, ND 58102

Bismarck

2009 Morrison Ave
701-222-3010

Minot

4401 E Burdick Expy
701-839-0509

Fargo

1425 41st St N
701-282-9255

www.BrockWhite.com

BROCKWHITE
CONSTRUCTION MATERIALS

HELPING BUILD YOUR SUCCESS

Terry Halstengard
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Mark Hansen
Hawkins, Inc.
2576 Industrial Dr
Washburn, ND 58577

Steve Hansen
Southeast Water Users
District
PO Box 10
Mantador, ND 58058

Bob Hanson
City of Williston
809 5th St E
PO Box 2437
Williston, ND 58801

Dan Hanson
North Dakota Rural Water
System Assoc.
2718 Gateway Ave #201
Bismarck, ND 58503

Stacey Hanson
NDDOT
608 E. Boulevard Ave
Bismarck, ND 58505

Marty Haroldson
ND Department of Health
918 E. Divide Ave
Bismarck, ND 58501

Brian Harrington
City of Carrington
103 10th Ave N
Carrington, ND 58421

Dave Harris
Fischer-Harris &
Associates
5865 Neal Ave N Suite 335
Stillwater, MN 55082

Don Harshman
Cavendish Farms, Inc.
P. O. Box 1980
Jamestown, ND 58402

Jason Hartunge
City of Sawyer
305 2nd Ave NW
Sawyer, ND 58781

Gary Hasbargen
City of Wahpeton
502 Wegener Dr
Breckenridge, MN 56520

Forrest L. Haug
City of Grand Forks
PO Box 5200
Grand Forks, ND 58201

James Hausauer
City of Fargo
3400 N Broadway
Fargo, ND 58102

Susan Hazelett
Apex Engineering Group
600 S 2nd St Ste 145
Bismarck, ND 58504

Dale Heglund
NDSU
515 1/2 E. Broadway
Ste 101
Bismarck, ND 58501

Keith Hegney
City of Surrey
100 Pleasant Ave S
Surrey, ND 58785

Ward Heidbreder
ND Rural Water Systems
2718 Gateway Ave.,
Ste 201
Bismarck, ND 58503

Shawn Heinle
ND Department of Health
918 E Divide Ave 3rd Fl.
Bismarck, ND 58501

Jeff Heintz
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Gaylen Helgeson
USAF-Minot
2421 Blake Rd
Minot, ND 58703

Gary Helland
City of Pembina
163 W Jerome St
Pembina, ND 58271

Jared Heller
AE₂S
3170 43rd St S Ste 100
Fargo, ND 58201

Tom Helmer
Quality Flow Systems, Inc.
800 6th St NW
New Prague, MN 56071

Jack Hendrickson
Fargo Water Equipment/
Dakota Supply Group
4557 15th Ave N
PO Box 128
Fargo, ND 58102

Tom Henry
Specialty Systems
Products
4605 Vallacher Ave
St. Louis Park, MN 55416

Wade Hesch
City of Valley City
1315 N. Central. Ave
Valley City, ND 58072

Devon Heupel
City of Fargo
402 23rd St N
Fargo, ND 58102

Dan Higgins
Genral Electric Water
4707 College Blvd,
No. 206
Leawood, KS 66211

Matthew Hillbrand
Kodru-Equipment, Inc.
3650 N Chestnut St
Ste. 102
Chaska, MN 55318

Steve Himmelspach
City of Mandan
205 - 2nd Ave NW
Mandan, ND 58554

Bruce Hirschert
City of New Rockford
428 1st Ave N
New Rockford, ND 58356

Jeff Hoff
City of Fargo
3400 N. Broadway
Fargo, ND 58102

Leslie Horgan
Self Employed
705 9th Ave SW
Jamestown, ND 58401

Derek Houim
City of Fargo
402 23rd St N
Fargo, ND 58102

Darrell Hournbuckle
Interstate Engineering, Inc.
1413 5th Ave. NW
Jamestown, ND 58402

BOLTON & MENK, INC.
Consulting Engineers & Surveyors



Engineering in Civil, Water, Wastewater,
Transportation, Water Resources & Landscape
Architecture, Surveying & GIS Services.

701-566-5339 | www.bolton-menk.com
Fourteen offices serving the upper midwest

DESIGNING FOR A BETTER TOMORROW

Dennis Howey
City of Gwinner
PO Box 425
Gwinner, ND 58040

Tim Jeffries
City of Glen Ullin
PO Box 70
Glen Ullin, ND 58631

Dan Jonasson
City of Minot
515 2nd Ave SW
Minot, ND 58701

Murthy Kasi
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Jeff Hruby
AE₂S
1815 Schafer St Ste 301
Bismarck, ND 58501

Andrew Job
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Cristy Jones
City of Bismarck
615 River Rd
Bismarck, ND 58504

Eric Keller
City of Minot
PO Box 5006
Minot, ND 58702

Jim Hubbard
Interstate Engineering, Inc.
1903 12th Ave SW
Jamestown, ND 58402

Brett Jochim
AE₂S
1815 Schafer St
Bismarck, ND 58501

Gene Jordan
Fargo Water Equipment/
Dakota Supply Group
4557 15th Ave. N.
Fargo, ND 58102

Alan Kemmet
Houston Engineering, Inc.
3712 Lockport St
Bismarck, ND 58503

Kevin Huson
Quality Flow Systems, Inc.
800 6th St NW
New Prague, MN 56071

Allen Johnson
City of Minot
515 2nd Ave SW
Minot, ND 58701

Brian Julius
Moore Engineering, Inc.
2730 30th St. NW, Suite B
Minot, ND 58703

Wayne Kern
ND Department of Health
918 E Divide Ave, 3rd Fl.
Bismarck, ND 58501

Chris Iwen
Enderlin City of
116 Cleveland St.
Enderlin, ND 58027

Barry Johnson
Bolton & Menk, Inc.
4165 S 30th Ave
Ste 100
Fargo, ND 58104

Pete Kaliher
City of Minot
515 - 2nd Ave. S.W.
PO Box 5006
Minot, ND 58702

Jim Kershaw
City of Bismarck
1380 Zuraff Dr.
PO Box 2437
Menoken, ND 58558

Ryan James
City of West Fargo
800 4th Ave E
West Fargo, ND 58078

Clark Johnson
ND National Guard
108 22nd St NE
Devils Lake, ND 58301

Rodney Kalis
City of Grand Forks - WTP
PO Box 5200
Grand Forks, ND 58206

Amanda Kieffer
KLJ
PO Box 96
Moorhead, MN 56560

Jeff Janiksela
Electric Pump, Inc.
1434 5th Ave N
Fargo, ND 58102

Kurt Johnson
Stantec Consulting
Services, Inc.
2335 Hwy 36 W.
St. Paul, MN 55113

Mitch Kannenberg
Leggette, Brashears, &
Graham, Inc.
140 E Hinks Lane,
Ste. 126
Sioux Falls, SD 57104

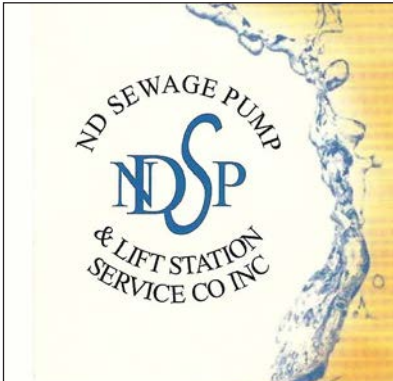
Greg Kilgore
Ess Brothers, Inc.
9350 County Rd. 19
Loretto, MN 55357

Ryan Janke
City of Fargo
402 23rd St N
Fargo, ND 58102

Wayne Johnson
The Ford Meter Box
Company
13685 Couchtown Ave
Rosemount, MN 55068

Kelsey Kaplan
Red Flint Sand & Gravel
1 American Blvd
Eau Claire, WI 54701


Joe Karst
ABM Equipment And
Supply, LLC
333 2nd St NE
Hopkins, MN 55343



John Westrum
Sales Manager
Office: 701.282.6760
Toll Free: 800.832.7055
Cell: 701.793.7502
Fax: 701.282.3579
jwestrum@ideadone.net

24 HOUR SALES & SERVICE
All Makes of Pumps and
Control Systems

1740 East Main Avenue #3
West Fargo, ND 58078



moore
engineering, inc.

Consulting Engineering
Land Surveying
West Fargo, ND
Minot, ND
Fergus Falls, MN
mooreengineeringinc.com

Troy Kincer
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Brian King
Ulteig
3350 38th Ave S
Fargo, ND 58104

Amy Kinzler
ND Department of Health
918 E Divide Ave 3rd Fl.
Bismarck, ND 58501

Jesse Kist
City of Bismarck
1301 3rd Ave NE
Bismarck, ND 58554

Jayme Klecker
AE₂S
6901 E Fish Lake Rd
Ste 184
Maple Grove, MN 55369

Byron Kleven
City of Stanley
PO Box 249
Stanley, ND 58784

Roger Kluck
EAPC
300 3rd Ave. SW
Ste A
Minot, ND 58701

Stephen Kohler
City of Williston
PO Box 2437
Williston, ND 58802

Scott Kolbinger
KLJ
4585 Coleman St
Bismarck, ND 58503

John Kouba
Wenck Associates
221 University Ave
Williston, ND 58801

David Kratochvil
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

David Kresel
City of Grand Forks
3005 Elmwood Dr
Grand Forks, ND 58201

Waide Kritsky
Ackerman-Estvold
1907 17th St SE
Minot, ND 58701

Brad Krogstad
Kadrmass, Lee & Jackson
128 Soo Line Dr
PO Box 1157
Bismarck, ND 58502

Tim Krueger
City of Bismarck
105 Shady Lane
Mandan, ND 58554

Craig Kukas
City of Dickinson
3411 Public Works Blvd
Dickinson, ND 58601

Greg LaBelle
Home On The Range
16351 I-94
Sentinel Butte, ND 58654

Gene Lachman
Granse/Trio Sales, LLC
21670 Hamburg Ave
Lakeville, MN 55044

Phil Landman
City of Fargo
524 45th St S Apt #205
Fargo, ND 58103

Dan Larsen
Brock White Co.
1425 41st St N
Fargo, ND 58102

Chris Larson
Short-Elliott-Hendrickson
3535 Vadnais Ctr Dr
St. Paul, MN 55110

Curtis Larson
City of Stanley
PO Box 249
Stanley, ND 58784

Gregory Larson
R & T Water Supply
PO Box 126
6392 114th Ave NW
Ray, ND 58849

Mike Larson
Larson Data
Communications, Inc.
220 S Kimball St
Mitchell, SD 57301

Rick Larson
City of Rugby
910 - 4th Ave. SW
Rugby, ND 58368

Rachel Leigh
NDSU
515 1/2 E. Broadway,
Ste. 101
Bismarck, ND 58501

Jim Lennington
Bartlett & West, Inc.
3456 E Century Ave
Bismarck, ND 58503

Brenda Lennox
Tualatin Valley Water Dist.
1850 SW 170th Ave
Beaverton, OR 97003

Keith Leopold
Minn-Dak Farmers Coop.
7525 Red River Rd.
Wahpeton, ND 58075

Enos Lien
City of Fargo
402 23rd St N
Fargo, ND 58102

Wei Lin
NDSU, Civil Eng. Dept.
NDSU Dept. 2470
PO Box 6050
Fargo, ND 58108

Jim Long
Ulteig
1412 Basin Ave
Bismarck, ND 58504

Mike Love
Houston Engineering, Inc.
1401 21st Ave N
Fargo, ND 58102

Brad Lovgren
City of Wahpeton
1900 4th St N
Wahpeton, ND 58075

Glen Lueck
Midwest Assistance
Program
PO Box 3
Lidgerwood, ND 58053

Madeline Luke
City of Valley City
747 6th St NE
Valley City, ND 58072

Waterblasting • Pipe Cleaning Service • Industrial Vacuuming

JET-WAY
Multiple Services, Inc.

1-800-378-5606

P.O. Box 131
Harwood, ND 58042

Office: 701-282-2356
Fax: 701-282-2423

Seth Lynne
Apex Engineering Group
4733 Amber Valley
Parkway S.
Fargo, ND 58104

Ryan Malsam
City of Mandan
205 2nd Ave NW
Mandan, ND 58554

Bob Markhouse
ND Department of Health
918 E Divide Ave., 3rd Fl.
Bismarck, ND 58501

Dean Martin
City of Rolla
PO Box 842
Rolla, ND 58367

Kevin Martin
Houston Engineering, Inc.
3712 Lockport St
Bismarck, ND 58503

Jeff Mattern
ND State Water
Commission
900 E Boulevard Ave.
Bismarck, ND 58505

Karen Mattoon
Great River Energy
151 40th Ave NW
Underwood, ND 58576

Brian Matzke
City of West Fargo
7404 Ellis Lane
West Fargo, ND 58047

Kevin Mayer
City of Casselton
702 1st St N.
PO Box 548
Casselton, ND 58012

Andy McDonald
ND Rural Water Systems
2718 Gateway Ave.
Ste 201
Bismarck, ND 58503

Jared Medhus
Sanitation Products, Inc.
1402 41st St N
Fargo, ND 58102

Monte Meiers
City of Williston
PO Box 2437
Williston, ND 58801

Lori Metz
City of Montpelier
PO Box 133
Montpelier, ND 58472

Kyle Meyer
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Lance Meyer
City of Minot
515 2nd Ave SW
PO Box 5006
Minot, ND 58702

Tyler Michel
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Eric Miller
2305 9th St N
Fargo, ND 58102

Dennis Miranowski
City of Wahpeton
1900 4th St N
Wahpeton, ND 58075

Chuck Mischel
ND Rural Water Systems
2718 Gateway Ave,
Ste 201
Bismarck, ND 58503

Jeff Moberg
City of Tioga
PO Box 218
Tioga, ND 58852

Dayna Moerkerke
City of Minot
PO Box 5006
Minot, ND 58702

Matthew Moltzan
City of Fargo
1020 - 10th St N
Moorhead, MN 56560

Jeff Monson
Great River Energy
2875 3rd St SW
Underwood, ND 58576

Peter Murphy
City of Minot
PO Box 5006
Minot, ND 58702

Leo Murr
City of Wahpeton
408 15th Ave N
Wahpeton, ND 58075

Jerry Myers
DN Tanks
4247 Grove Ave
Gurnee, IL 60031

Joel Myhro
City of Devils Lake
423 6th Street N.E.
Devils Lake, ND 58301

Bobby Nasset
AE₂S
103 First Ave W
Ste 300
Dickinson, ND 58601

Peter Nelson
Integrated Process
Solutions (IPS), Inc.
PO Box 26
Fosston, MN 56542

Tom Nielson
City of Mayville
212 3rd St NE
Mayville, ND 58257

Lyle Niemann
City of Grafton
1546 Western Ave.
Grafton, ND 58237

Laurie Nostdahl
Great River Energy
87 40th Ave NW
Underwood, ND 58576

Small Communities.



BIG IMPACT.

Energy Laboratories understands our work affects the lives of families in North Dakota's rural communities. Knowing that **trusting our data starts with trusting our people**, our team applies in-depth scientific knowledge, technical expertise, and an uncompromising commitment to integrity to every water sample we test.



Billings, MT 800.735.4489 Gillette, WY 866.686.7175

Trust our People. Trust our Data.

www.energylab.com

Ken Nysether
Short-Elliott-Hendrickson.
925 Basin Ave. Suite 101
Bismarck, ND 58504

Doug Oberlander
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Wayne Offerdahl
City of Fargo
3400 N Broadway
Fargo, ND 58102

Matt Oldham
City of Fargo
402 23rd St N.
Fargo, ND 58102

Bob Olson
West Fargo
PO Box 824
West Fargo, ND 58078

Karla Olson
Apex Engineering Group
4733 Amber Valley
Parkway S
Fargo, ND 58104

Keith Olson
City of Harvey
704 Birch Ave
Harvey, ND 58341

Rick Olson
Williams Rural Water
708 13th St. W
Williston, ND 58801

Ron Olson
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Scott Olson
Apex Engineering Group
600 S 2nd St Ste 145
Bismarck, ND 58504

Todd Olson
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Mike O'Neill
Prinsco, Inc.
1717 16th St NE
Willmar, MN 56201

Dave O'Shea
Houston Engineering, Inc.
720 Western Ave
Minot, ND 58701

Linda Oster
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Daniel Overmoe
City of Mayville
822 1st St NW
Mayville, ND 58257

Chris Padilla
NDSU
515 1/2 E. Broadway, Ste.
101
Bismarck, ND 58501

Jon Panna
KLJ
1505 S 30th Ave
Moorhead, MN 56561

Melanie Parvey
City of Grand Forks
255 N 4th St.
Grand Forks, ND 58206

Jim Paulsen
General Repair Service
3535 International Dr
Vadnais Heights, MN
51010

Tim Paustian
Apex Engineering Group
4733 Amber Valley
Parkway S
Fargo, ND 58104

Alice Pekarski
City of Montpelier
PO Box 3
Montpelier, ND 58472

Delron Peters
HDR Engineering, Inc.
6300 S Old Village Pl
Ste. 100
Sioux Falls, SD 57108

Mike Petersen
AE₂S
6901 E Fish Lake Rd
Ste 184
Maple Grove, MN 55369

Mark Peterson
City of Fargo
435 14th Ave S
Fargo, ND 58102

Nate Petron
Flexible Pipe Tool Co.
30577 Pearl Dr
St. Joseph, MN 56374

Chris Pettigrew
Paxxo, Inc.
1924 Millard Farmer Rd.
Newnan, GA 30263

Derrick Placek
BNI Coal, Ltd.
2360 35th Ave SW
Center, ND 58530

Mike Plante
Leggette, & Brashears &
Graham, Inc.
8 Pine Tree Dr. Suite 250
St. Paul,, MN 55112

Randy Pope
Interstate Engineering,
Inc.
PO Box 667
Wahpeton, ND 58074

Dan Popehn
Mainsail Global
1700 67th Ave N
Minneapolis, MN 55430

Justin Porter
USAF-Minot
1105 11th St SW
Minot, ND 58701

Dan Portlock
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Sherman Potter
Stantec Consulting
2335 Hwy 36 W
St. Paul, MN 55113

Dewey Prinzing
KLM Engineering, Inc.
PO Box 897
Lake Elmo, MN 55042

Kim Putz
Hawkins, Inc.
2001 Great Northern Dr
Fargo, ND 58102

Steven Quail
HDR Engineering, Inc.
6300 S. Old Village Pl
Sioux Falls, SD 57108

**We're setting the standard
for engineering in North Dakota.**



**701.837.8737
www.ackerman-estvold.com**

Minot, ND | Williston, ND

Michael Quamme
Apex Engineering Group
4733 Amber Valley
Parkway S
Fargo, ND 58104

Richard Quast
Infratech
21040 Commerce Blvd.
Rogers, MN 55374

Lyle Quenzer
South Central RWD -
Emmons Plant
PO Box 4182
10700 Hwy. 1804 N
Bismarck, ND 58502

Meredith Quinn
AE₂S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Sean Rabe
KLJ
1500 Abraham Pkwy
Unit #8
Dickinson, ND 58601

Brian Randash
City of Minot
PO Box 5006
Minot, ND 58702

Lyle Ranstrom
Ferguson Waterworks
1917 1st Ave N
Fargo, ND 58102

Gary Ravnaas
City of Rolla
PO Box 261
Rolla, ND 58367

Rod Redlin
Dakota Pump & Control
705 Quadee Dr SW
Watertown, SD 57201

Dennis Reep
HDR Engineering, Inc.
4503 Coleman St Ste 105
Bismarck, ND 58503

Dana Reidburn
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Jeff Reiser
MVTL Laboratories, Inc.
2616 E Broadway Ave
Bismarck, ND 58501

Larrie Rennerfeldt
Engineered Sales Co.
8500 Pillsbury Ave. S.
Bloomington, MN 55420

Kevin Renslow
Tnemec Co/Coating
Resources, Inc.
625 St. Louis St Ste 12
Hopkins, MN 55343

Neal Repnow
City of Underwood
PO Box 685
Underwood, ND 58576

Kim Reynolds
Parsons Engineered
Products, Inc.
4900 Kingsberry Lane
Minnetonka, MN 55345

Kent Ritterman
Moore Engineering, Inc.
925 10th Ave. E.
West Fargo, ND 58078

Steve Roberts
S. Roberts Company
17575 Bearpath Tr
Eden Prairie, MN 555347

Chip Robinson
Stantec Consulting Servies
2335 W Hwy 36
St. Paul, MN 55113

Karl Rockeman
ND Department of Health
918 E Divide Ave, 4th Fl
Bismarck, ND 58501

Jeff Roerick
ND Department of Health
918 E Divide Ave, 4th Fl.
Bismarck, ND 58501

Kyle Rogahn
City of Wahpeton
1900 4th St N
Wahpeton, ND 58075

Rich Romness
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Gaard Rops
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Terry Rust
City of West Fargo
1907 3rd Ave E
West Fargo, ND 58078

Darwin Saari
City of Turtle Lake
PO Box 338
Turtle Lake, ND 58575

Maggie Sahr
Fargo Cass Public Health
435 14th Ave S
Fargo, ND 58103

Abraham Salamzadeh
Tech Sales Co
311 W 44th St
Minneapolis, MN 55409

Patrick Samson
Ackerman-Estvold
1907 17th St SE
Minot, ND 58701



Randy Sand
City of Tuttle
PO Box 83
505 N Prairie St
Tuttle, ND 58488

Chris Saxton
Short-Elliott-Hendrickson
925 Basin Ave. Ste 101
Bismarck, ND 58504

Kris Sayre
Advanced Drainage
Systems
6582 Co Rd 4 SW
Alexandra, MN 56308

Scott Schaefer
AE₂S
6901 E Fish Lake Rd
Ste 184
Maple Grove, MN 55369

Darin Schaeffer
Bartlett & West, Inc.
3456 Century Ave E
Bismarck, ND 58503

Jacob Schafer
ND Department of Health
918 E. Divide Ave, 3rd Fl.
Bismarck, ND 58501

Gina Schauer
RMB Environmental
Laboratories, Inc.
22796 Co Hwy 6
Detroit Lakes, MN 56501

Dennis Schell
Team Lab
PO Box 1467
Detroit Lakes, MN 56501

Terry Schiro
Vessco, Inc.
8217 Upland Circle
Chanhassen, MN 55317

Chris Schmid
Ferguson Waterworks
1917 - 1st Ave N.
Fargo, ND 58102

Joe Schmidt
Hawkins, Inc.
2576 Industrial Dr
Washburn, ND 58577

Randy Schmidt
Ferguson Waterworks
1201 Airport Rd
Bismarck, ND 58504

Scott Schneider
Apex Engineering Group
600 S 2nd St Suite 145
Bismarck, ND 58504

Dave Schwengler
Houston Engineering, Inc.
720 Western Ave.
Minot, ND 58701

Dustin Scott
Moore Engineering, Inc.
925 - 10th Ave. E.
West Fargo, ND 58078

Randy Seelig
City of Lisbon
PO Box 1079
Lisbon, ND 58054

Trevor Seelig
City of Lisbon
PO Box 1079
903 Rose St.
Lisbon, ND 58054

Daron Selvig
AE₂S
4050 Garden View Dr.
Ste 200
Grand Forks, ND 58201

John Selvog
Infratech
21040 Commerce Blvd.
Rogers, MN 55374

Mike Seminary
Houston Engineering, Inc.
3712 Lockport St.
Bismarck, ND 58503

Jeremy Sheeley
City of Fargo Water
Treatment Plant
435 14th Ave. S.
Fargo, ND 58103

Les Sigette
ND Rural Water Systems
1741 15th S.
Fargo, ND 58103

Mark Skow
City of Grand Forks
PO Box 5200
Grand Forks, ND 58208

Dean Sletten
Moore Engineering, Inc.
925 10th Ave. E.
West Fargo, ND 58078

Hazel Sletten
City of Grand Forks
1851 35th St. NE
Larimore, ND 58251

Dean Smith
R&T Water Supply
Commerce Authority
PO Box 126
Ray, ND 58849

Luci Snowden
ND Department of Health
918 E Divide Ave., 4th Fl.
Bismarck, ND 58501

Arik Solheim
City of Hatton
1113 Truman Ave.
Hatton, ND 58240

Jason Sorenson
City of Minot
515 2nd Ave. SW
PO Box 5006
Minot, ND 58701

Russell Sorenson
Watersmart
3617 Bottom Road
Bismarck, ND 58504

Matt Sperry
ND Department of
Transportation
608 E Boulevard Ave
Bismarck, ND 58505

Matt Staebler
City of West Fargo
4256 39th Ave. S
West Fargo, ND 58104

Bernie Stasch
City of Harwood
108 Main St
P O Box 65
Harwood, ND 58042

Todd Stelmacher
Visu-Sewer, Inc.
3155 104th Lane NE
Blaine, MN 55449

Tim Stetz
Fargo Water Equipment/
Dakota Supply Group
4557 - 15th Ave N
Fargo, ND 58102

Gregg Stewart
ND Department of Health
918 E Divide Ave, 3rd Fl.
Bismarck, ND 58501

HoustonEngineering Inc

Engineering. Consulting. Solutions.
For more than 46 years, HEI has been using innovative methods to deliver quality, reliable solutions for our clients.
houstoneng.com

Deon Stockert
AE₂S
103 1st Ave W
Ste 300
Dickinson, ND 58601

Brock Storrusten
Moore Engineering, Inc.
2730 30th St NW, Ste B
Minot, ND 58703

Michael Strom
KLJ
1010 4th Ave. SW
Valley City, ND 58072

Shannon Suggs
ND Department of Health
918 E Divide Ave., 4th Fl
Bismarck, ND 58501

William Sukalski
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Jim Swanson
Veit & Company, Inc.
14000 Veit Pl
Rogers, MN 55374

Darrell Sweep
City of Fargo
402 23rd St N
Fargo, ND 58102

Kollin Syverson
Hawkins, Inc.
2576 Industrial Dr.
Washburn, ND 58577

Anthony Tartaglione
MWH Global
2220 University Ave.
Williston, ND 58801

Zack Thein
Thein Well Company
PO Box 778
Spicer, MN 56288

Larry Thelen
AE₂S
1815 Schafer St.
Ste 301
Bismarck, ND 58501

Douglas Thingstad
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Adam Thomas
City of Washburn
907 Main Ave
Washburn, ND 58577

Mike Thompson
Grand Forks-Traill
Water District
PO Box 287
Thompson, ND 58278

Kent Thoreson
Interstate Engineering
PO Box 667
Wahpeton, ND 58075

Leeann Tillotson
ND Department of Health
918 E Divide Ave., 3rd Fl.
Bismarck, ND 58501

Terry Tobin
Cargill Inc.
PO Box 113
Barnesville, MN 56514

Elizabeth Tokach Duran
ND Department of Health
918 E Divide Ave., 3rd Fl
Bismack, ND 58501

Maurice Travis
City of Fargo
3117 35 1/2 Ct Ave. S.
Fargo, ND 58104

Dan Trosen
City of Carrington
103 10th Ave N.
Carrington, ND 58421

Jonathon Trostad
City of McVile
PO Box 38
McVile, ND 58254

Michael Trythall
ND Department of Health
918 E. Divide Ave 3rd Fl.
Bismarck, ND 58504

Donald Tucker
City of Fargo
5160 44th Ave. S
Fargo, ND 58104

Dan Tupa
City of Williston
2215 32nd St W #103
Williston, ND 58801

Paul Tupa
Northern Pipe Products
1302 39th St. NW
Fargo, ND 58102

Adam Underwood
Moore Engineering, Inc.
PO Box 4317
Minot, ND 58702

Daryl Unser
Granse/Trio Sales, LLC
21670 Hamburg Ave.
Lakeville, MN 55044

Frank Vavrosky
City of Fargo
3400 N. Broadway
Fargo, ND 58102

Charlie Vein
AE₂S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Alan Verbitsky
City of Minot
PO Box 5006
Minot, ND 58702

Jim Vogel
Engineered Sales Co.
8912 Wentworth Ave S
Bloomington, MN 55420

Eric Volk
ND Rural Water Systems
2718 Gateway Ave,
Ste 201
Bismarck, ND 58503

Sarah Volk
AE₂S
1815 Schafer St
Bismarck, ND 58501

Mark Vollmer
City of Minot
PO Box 5006
515 2nd Ave. SW
Minot, ND 58702

Bill Vose
Treatment Resources, Inc.
11670 Fountains Dr.
Ste. 200
Minneapolis, MN 55369

Jessica Wagner
AE₂S
3170 43 St S Ste 100
Fargo, ND 58201

Richard Wagner
AE₂S
3101 Frontage Rd
Moorhead, MN 56560

OVIVO
Bringing water to life

**200 Years
of Heritage!**



1-512-697-1977



info.us@ovivowater.com



www.ovivowater.com



Donald Wald
City of Wahpeton
521 N 2nd St
Wahpeton, ND 58075

Mary Wall
KLJ
1463 I-94 Business Loop E
Dickinson, ND 58601

Greg Wavra
ND Department of Health
918 E Divide Ave, 3rd Fl
Bismarck, ND 58501

Dustin Weishaar
USAF - Minot
1711 S Main St
Minot, ND 58701

Rocky Waldin
Construction Specialties
7100 Utica Lane
Chanhassen, MN 55317

Randy Wall
KLJ
1463 I-94 Business Loop E
Dickinson, ND 58601

Matthew Weaver
City of Mayville
16171 7th St NE
Cummings, ND 58223

Mattern Welle
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Darin Waldner
Dakota Pump & Control
PO Box 725
Watertown, SD 57201

Jeni Walsh
ND Department of Health
918 E Divide Ave, 3rd Fl
Bismarck, ND 58501

Mike Weaver
City of Fargo
402 23rd St N
Fargo, ND 58102

Tom Welle
Apex Engineering Group
4733 Amber Valley
Parkway S.
Fargo, ND 58104

Sarah Waldron
ND Department of Health
918 E Divide Ave, 4th Fl
Bismarck, ND 58501

Alan Walter
Ackerman-Estvold
1907 17th St SE
Minot, ND 58701

Dan Weber
ND Department of Health
918 E Divide Ave, 4th Fl
Bismarck, ND 58501

Aaron Wellman
ND Department of Health
918 E. Divide Ave.
Bismarck, ND 58503

April Walker
City of Fargo
Engineering Department
200 Third St. N
Fargo, ND 58102

Sherwin Wanner
Houston Engineering, Inc.
1401 21st Ave N
Fargo, ND 58102

Perry Weiner
ND State Water
Commission
900 E Boulevard Ave.
Bismarck, ND 58505

Andy Wentz
North Prairie Rural
Water District
2111 8th St NW
Minot, ND 58703

Brian Ward
City of Fargo
435 14th Ave S
Fargo, ND 58103

Bartlett & West

For over 60 years — engineering clean and safe water for our communities and for you.

&you

Water Engineering Services

- Preliminary, feasibility, and design reports
- Water source, treatment, and distribution design
- Long-range strategic and financial planning
- Regulatory compliance—strategies and planning
- GIS, GPS, and specialized system modeling
- Permitting, land rights, and easement management

BARTLETT & WEST

WILLISTON ND ■ BISMARCK ND ■ 800.474.4117 ■ BARTWEST.COM

Bob Werkhoven
Valley City
630 10th Ave SW
Valley City, ND 58072

Kathy Wiedrich
City of Cathay
232 1st St
Cathay, ND 58422

John Wirries
KLJ
1505 S 30th Ave
PO Box 96
Moorhead, MN 56560

Chad Zander
City of West Fargo
810 12 Ave NW
West Fargo, ND 58078

Dave West
Team Lab
PO Box 1467
Detroit Lakes, MN 56501

Jon Wilczek
KLJ
1463 I-94 Business Loop
Dickinson, ND 58601

Brad Wright
City of Bismarck
PO Box 5503
Bismarck, ND 58506

Joe Zauner
Fischer, Harris &
Associates
5865 Neal Ave N
Ste #335
Stillwater, MN 55082

John Westrum
ND Sewage Pump & Lift
Station
1734 Main Ave E
West Fargo, ND 58078

Chuck Williams
American Public Water
Association
7700 Cottonwood
Lenexa, Ks 66216

Jeff Wright
City of Mandan
411 6th Ave SW
Mandan, ND 58554

Dusty Zimmerman
Ackerman-Estvold Eng.
1907 17st SE
Minot, ND 58701

Darin Wetzel
City of Verona
PO Box 213
Verona, ND 58490

Matt Willis
Itron
4325 Trenton Trail
Eagan, MN 55123

Mike Yavarow
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Kim Zimmerman
City of Washburn
310 5th Ave
Washburn, ND 58577

David Wicke
Moore Engineering
2730 30th St NW
Minot, ND 58703

Keith Winson
City of Maddock
PO Box 276
Maddock, ND 58348

Brian Young
City of Williston
2301 32nd St W #306
Williston, ND 58801

Gary Zuroff
City of Dickinson
99 2nd St E
Dickinson, ND 58601

Serving North Dakota, in North Dakota, for 35 Years

CONTACT US FOR QUALITY ANALYTICAL AND SAMPLING SERVICES:

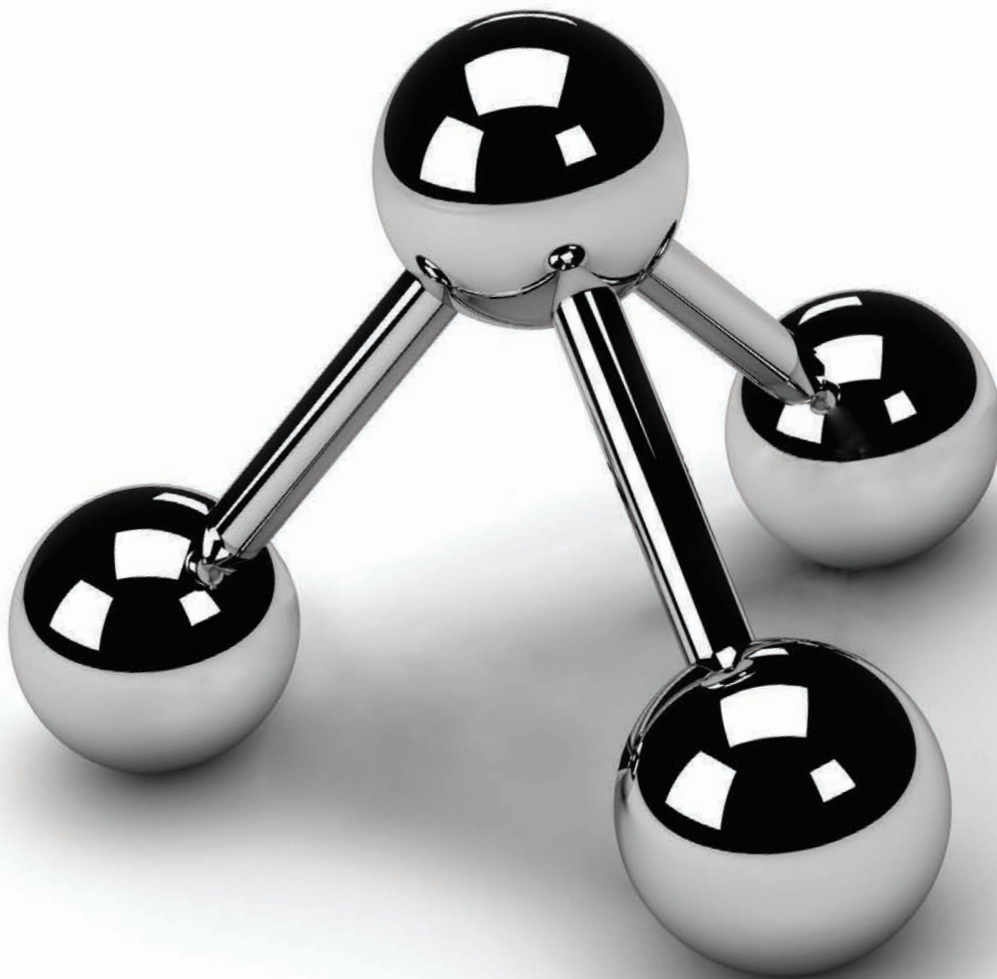
- ✓ Drinking Water
- ✓ Groundwater
- ✓ Surface Water
- ✓ Wastewater
- ✓ Biosolids
- ✓ Soil
- ✓ Solid Waste
- ✓ Waste Characterization
- ✓ Industrial Waste
- ✓ Priority Pollutants
- ✓ Crude and Brine Spills
- ✓ Wastewater Flow Studies
- ✓ Composite Sampling
- ✓ Rental of Flow Recorders
and Sampling Equipment
- ✓ Field Sampling Services



MVTL Laboratories, Inc.
2616 East Broadway Avenue
Bismarck, ND 58501

Phone: 800-279-6885; Phone: 701-258-9720; Fax: 701-258-9724; Email: csc@mvtl.com

New Ulm, MN 800-782-3557



ELEMENTS OF YOUR SUCCESS

Vision. Value. Passion. Integrity. Relationships. Attitude.

These elements make up the structure of AE2S. What does that mean to you? Extreme client service, trusted relationships, a shared vision for your future, and passion for every project. They all translate into your success.

Advanced Engineering and Environmental Services, Inc. (AE2S) Offices:

Bismarck Dickinson Fargo Grand Forks Minot Watford City Williston
Eagan Maple Grove Moorhead
Great Falls Kalispell
Madison
Salt Lake City
www.ae2s.com

WATER ENGINEERING
FINANCIAL/ASSET MANAGEMENT
INSTRUMENTATION & CONTROLS
ELECTRICAL ENGINEERING
CIVIL ENGINEERING
STRUCTURAL ENGINEERING
LAND DEVELOPMENT
SURVEY/MAPPING/GIS



2014 Summer and Conference Testing Operators Pass Certification Exams

Congratulations!

| <u>Operator</u> | <u>Employer</u> | <u>Certification Type/Grade</u> |
|------------------------|-------------------------------------|---|
| Backowski, John | Cargill Sweeteners | Wastewater Treatment 03 |
| Bartholomew, Zachary | Grand Forks | Water Treatment 01 |
| Benz, Justin | Beulah | Wastewater Collection 1A, Wastewater Treatment 1A |
| Gunville, Shannon | Belcourt Rural Water | Wastewater Collection 01 |
| Haring, Kevin | Oakes | Water Treatment 02 |
| Hartman, Lucas | Beulah | Water Treatment 1A |
| Hasbargen, Gary | Wahpeton | Water Treatment 03 |
| Hatzenbeller, Mark | Cargill Sweeteners | Wastewater Collection 1A, Wastewater Treatment 1A |
| James, Ryan | West Fargo | Water Distribution 03 |
| Keller, Eric | Minot | Water Distribution 02 |
| Kohler, Steve | Williston | Wastewater Collection 01 |
| Koval, Charles | Cargill Sweeteners | Water Distribution 01 |
| Kuglin, Troy | Minot | Wastewater Collection 01 |
| Leonard, Tom | Minot | Wastewater Collection 01 |
| Loustaunau, Kevin | Advanced Pump | Water Distribution 02, Water Treatment 02 |
| Randash, Brian | Minot | Water Distribution 03 |
| Ravnaas, Gary M | Rolla | Water Distribution 1A, Water Treatment 1A |
| Shaffer, Jeff | McKenzie County Rural Water | Water Distribution 1A |
| Smedshammer, Tanner | West Fargo | Wastewater Collection 01 |
| Staebler, Matthew | West Fargo | Wastewater Collection 01, Water Distribution 01 |
| Zimmerman, Kim | Washburn | Water Treatment 1A |
| Beste, Nick | New Town | Water Treatment 01 |
| Binstock, Clarence | New England | Water Distribution 01 |
| Birnbaum, Dan | West Fargo | Wastewater Collection 02 |
| Bruce, Harold R | Belcourt Rural Water | Wastewater Collection 02 |
| Carriveau, Jason | West Fargo | Water Distribution 1A |
| Corey, Kevin | Dakota Rural Water | Water Distribution 01 |
| Cummins, Crescentia | McKenzie County Rural Water | Water Distribution 1A |
| Demaray, Maynard R | Fort Berthold Rural Water | Water Treatment 02 |
| Dhinaa, Morkataa | R & T Water | Water Treatment 02 |
| Dill, David | Fargo | Wastewater Collection 02 |
| Duchsherer, Josh | Minot | Water Distribution 03 |
| Eisenzimmer, Terry | Camp Gilbert | Water Distribution 1A |
| Freeman, John | West Fargo | Wastewater Collection 01, Water Distribution 1A |
| Haugen, Amy | Cargill Sweeteners | Wastewater Treatment 04 |
| Hudson, Kasey | Minot | Water Distribution 01 |
| Huebner, Steven | Stutsman Rural Water | Water Treatment 04 |
| Huggins, Andrew | Advanced Pump | Wastewater Collection 02, Wastewater Treatment 02 |
| Marsolek, James R | Jamestown | Wastewater Collection 02 |
| Matzke, Brian | West Fargo | Wastewater Collection 01 |
| Nelsen, Nicholas | Williston Lodge & Bear Paw Lodge | Water Distribution 01 |
| Nelson, Eric | Grand Forks | Water Treatment 02 |
| Nordstrom, Gary | Southwest Water Authority | Water Distribution 01 |
| Olson, Ronald D | Jamestown | Wastewater Treatment 03 |
| Palmer, Tyler | Grand Forks | Water Treatment 03 |
| Pranke, Dane | West Fargo | Wastewater Collection 01, Water Distribution 01 |

Operator

Repnow, Neal
Tobin, Terry
Trostad, Jonathon
Weaver, Matthew
Whittington, Jerry
Young, Brian
Zimmerman, Jeremy

Employer

Underwood
Cargill Sweeteners
McVile
Mayville
Southwest Water Authority
Williston
West Fargo City Of

Certification Type/Grade

Wastewater Collection 01, Water Distribution 01
Wastewater Collection 01
Water Treatment 02
Water Distribution 01
Water Distribution 01
Water Treatment 01
Wastewater Collection 01, Water Distribution 01

Best Tasting Water in North Dakota Winner

Congratulations!

The City of Fargo has the best tasting tap water in North Dakota. The Fargo Water Treatment Plant's water beat out samples from Bismarck, Grand Forks, Lisbon, Mandan, Mayville, Valley City, and Wahpeton during the Drinking Water Taste Test at the 86th annual North Dakota Water & Pollution Control Conference in Fargo. Conference attendees selected Fargo, Valley City, and

The Water Treatment Plant relies on the Red River as its primary water source and augments its water supply with the Sheyenne River and Lake Ashtabula.

The City of Fargo will begin construction on a three-year expansion project at the water treatment plant in early 2015. The expansion will increase the plant's treatment capacity from 30 million gallons per day to 45 million gallons per day. The increased capacity is necessary to keep up with future growth. The project also includes the addition of new membrane treatment technology to treat elevated dissolved solids such as bromide and sulfate, which enter into the Sheyenne River via floodwater discharges from Devils Lake.

The ND chapter of the AWWA puts on the Drinking Water Taste Test during the North Dakota Water and Pollution Control Conference each year. Past winners include Medina (2013), Mayville (2012), Fargo (2011), Mayville (2010), Valley City (2009), Enderlin (2008), Grand Forks (2007), and Minot (2006).

The North Dakota Water & Pollution Control Conference is a joint effort of the North Dakota Section of the AWWA, North Dakota Section of the Water Environment Association (WEA), North Dakota Section of the American Public Works Association (APWA), and North Dakota Chapter of the North American Stormwater & Erosion Control Association (NASECA).



Meredith Quinn of the NDAWWA presents the Best Tasting Water award to Mark Peterson from the City of Fargo

Mandan as the top three contenders in a blind taste test. The national Vice President of the American Water Works Association (AWWA), Brenda Lennox, teamed up with Valley News Live's Lisa Budeau, Kyle Bosch, and Kristi Larson to serve as celebrity judges during the final blind taste test.

Fargo was formally announced as the winner at the conference's awards banquet. Mark Peterson, Superintendent of the Fargo water treatment plant, says, "The City of Fargo operates a very sophisticated plant and consistently produces high-quality, good-tasting, and safe water from sources with high variability."



Local Service, Nationwide

Jason Berg
Outside Sales Representative

407 72nd Street, SE
Minot, ND 58701

jason.berg@hdsupply.com
www.hdswaterworks.com

t 701.852.6878
f 701.852.6817
m 701.500.5016



You need a specialized water solution. We have very specialized water engineers.

When you need a water engineering solution, you need Ackerman-Estvold. Our engineers are experts in their specialty, giving your project the very best thinking. That expertise allows us to design the right solution for water distribution, water & waste water treatment, sanitary sewer, and storm sewer systems.

We're setting the standard for engineering in North Dakota.



 **ACKERMAN-ESTVOLD**
701.837.8737
www.ackerman-estvold.com

Minot, ND | Williston, ND

HERKIMER

WILFRED M. BASKA



Page 6



NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE

NDWPCC

Upcoming Conference Dates:

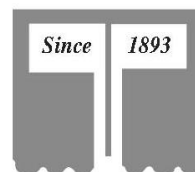
2015--Bismarck, October 6, 7 and 8
Ramkota Hotel

2016--Minot, October 11, 12, and 13
Holiday Inn Riverside

2017-- Fargo, October 17, 18 and 19
Holiday Inn

THEIN WELL

Over 100 Years of Service



- Test/Production Wells
- Pump Sales/Service
- Well Rehabilitation
- Well Television
- Gamma/E-logging
- Well Abandonment
- Geo Probing
- Soil Borings
- Monitoring Well
- Remediation Wells
- Geothermal Systems
- Rock Coring



**Certified Master
Groundwater Contractor**

1-800-450-8000

www.theinwell.com

2014 Conference Photos

Thanks for attending



2014 Conference Photos

Thanks for attending



ALTERNATIVES TO RIP RAP

Brock White is your source for new and innovative alternatives to Rip Rap to protect against erosion along shorelines, slopes, and anywhere where sediment is moved by water runoff.



FLEXAMAT

Flexamat consists of concrete shapes that are tied together with high strength geogrid, which enables vegetation to be established while remaining a permanent erosion control solution. Flexamat is capable of handling high flow water runoff. For more information, visit www.BrockWhite.com/Flexamat.



SCOURSTOP™

The ScourStop transition mat is designed with voids throughout the structure that allows vegetation growth while providing mechanical protection over highly erosive areas. Scourstop provides protection against much higher shear stress and velocities than rock rip rap. For more information, visit www.BrockWhite.com/Scourstop.



TURF REINFORCEMENT MATS

Brock White offers a variety of Turf Reinforcement Mats to stabilize erosive areas. We provide TRM's for both short-term and permanent erosion control, as well as High Performance TRM's for the most demanding erosion control applications.

NAG

SC250

SC350

P300

P550

VMAX® W3000™

PROPEX

LANDLOK® 450

LANDLOK® 300

PYRAMAT®

ARMORMAX®

Bismarck

2009 Morrison Avenue, ND 58504
701-222-3010 1-800-932-8829

Minot

4401 E Burdick Expy, ND 58701
701-839-0509

Fargo

1425 41st Street N, ND 58102
701-282-9255 1-800-487-9256

NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE



12th Annual Stormwater Workshop

Don't Let Your Winter Go Down the Drain

Get Your Education Credits This March



Join the NDWPCC Stormwater Workshop March 11 & 12 in Minot at
the Grand Hotel

Register at www.ndhealth.gov/wq/storm/stormwaterhome.htm



Knowledge Lives Downstream

| Drinking Water Program Directory | | |
|--|---|--|
| Program Administrator | Greg Wavra | 701-328-5257 |
| Acrylamide and Epichlorohydrin Rule | Gary Stefanovsky | 701-328-5287 |
| Arsenic Rule | Lydia Fewless | 701-328-5221 |
| Consumer Confidence Reports | LeeAnn Tillotson | 701-328-5293 |
| Disinfectant/Disinfection Byproducts Rule (TTHM, HAA5) Stage 1 and Stage 2 Rule | Lydia Fewless | 701-328-5221 |
| Electronic Reporting Information System (ERIS) | Barrett Brown | 701-328-5209 |
| Filter and Backwash Recycle Rule | Gary Stefanovsky | 701-328-5287 |
| Fluoride Addition | Amy Kinzler | 701-328-5258 |
| Groundwater Rule | Gary Stefanovsky | 701-328-5287 |
| Inspections: Northeast | Gregg Stewart | 701-328-6621 |
| Inspections: Northwest | Justin Feld | 701-328-6624 |
| Inspections: Southeast | Shawn Heinle | 701-328-6627 |
| Inspections: Southwest | Bob Markhouse | 701-328-6623 |
| Inspections: Northwest | Mike Trythall | 701-328-5269 |
| Lead and Copper Rule | Amy Kinzler | 701-328-5258 |
| Surface Water Treatment Rule: Interim Enhanced, Long Term 1 Enhanced, Long Term 2 Enhanced | Mike Trythall | 701-328-5269 |
| Microscopic Particulate Analysis (MPA) | Gary Stefanovsky | 701-328-5287 |
| Nitrate/Nitrite Program | Amy Kinzler | 701-328-5258 |
| Operator Certification | Craig Bartholomay | 701-328-6626 |
| Operator Expense Reimbursement/Public Notice Rule | LeeAnn Tillotson | 701-328-5293 |
| Operator Training | Mike Brisben | 701-328-6622 |
| Pesticides (SOCs) | Lydia Fewless | 701-328-5221 |
| Primary and Secondary Inorganics | Lydia Fewless | 701-328-5221 |
| Public Water System Updates (changes to source, treatment, contact, etc.) | Tammy Lamphear | 701-328-5295 |
| Radionuclide Rule: Gross Alpha, Total Radium, Uranium | Lydia Fewless | 701-328-5221 |
| Total Coliform Rule | Jeni Walsh | 701-328-5231 |
| Revised Total Coliform Rule | Josh Seerup | 701-328-5257 |
| Unregulated Contaminant Monitoring | LeeAnn Tillotson | 701-328-5293 |
| Volatile Organic Chemicals (VOCs) | Lydia Fewless | 701-328-5221 |
| Central Phone: 701-328-5211 | | Fax: 701-328-5200 |
| North Dakota Pollutant Discharge Elimination System Program Directory | | |
| Program Administrator | Marty Haroldson | 701-328-5234 |
| Animal Feeding Operations | Brady Espe Rachel Fast Jeremy Lang | 701-328-5228 701-328-5244 701-328-5219 |
| Biosolids | Marty Haroldson | 701-328-5234 |
| Construction Stormwater | Dallas Grossman Luci Snowden Patrick Schuett Dan Weber | 701-328-5242 701-328-5239 701-328-5235 701-328-5285 |
| Dewatering and Hydrostatic Testing | Sarah Waldron Marty Haroldson | 701-328-5237 701-328-5234 |
| Discharge Monitoring Reports (DMRs) | All Staff | 701-328-5210 |
| DMR Quality Assurance (QA) Study | Marty Haroldson | 701-328-5234 |
| Industrial Pretreatment | Jeff Roerick | 701-328-5240 |
| Industrial Stormwater | Dallas Grossman Luci Snowden Patrick Schuett | 701-328-5242 701-328-5239 701-328-5235 |
| Inspections | All Staff | 701-328-5210 |
| Lagoon Overflows/Releases/Spills | All Staff | 701-328-5210 |
| MS4 Stormwater | Dallas Grossman Luci Snowden Patrick Schuett | 701-328-5242 701-328-5239 701-328-5235 |
| Public Notices/NDPDES Permits | Curt Steier | 701-328-5260 |
| Septic Pumper | Sarah Waldron Marty Haroldson | 701-328-5237 701-328-5234 |
| Wastewater Discharge Reviews | All Staff | 701-328-5210 |
| Central Phone: 701-328-5210 | | Fax: 701-328-5200 |



— cap the risk

The closed bag system for screenings, grit and sludge screenings.

- Mounts to existing equipment.
- Increased odor control.
- Minimized mess.
- Very robust, 90m (295') long continuous feed, non-porous, polythene bag.
- Over 20,000 installations worldwide.

Visit www.paxxo.us for more information.



PAXXO (USA) INC. 1924 Millard Farmer Road, Newnan, GA 30263

www.paxxo.us Tel +1 770 502 0055 Fax +1 770 502 0088



Official Bulletin

N.D. Water & Pollution Control Conference
Environmental Training Center
2639 East Main Avenue
Bismarck, ND 58501

PRSRT STD
US POSTAGE
PAID
PERMIT #433
BISMARCK, ND
ZIP CODE 58501

water | transportation | municipal | facilities

We believe in simplicity.

We believe in setting the bar even higher.

We believe in doing what we say.

Thank you for believing in us.



Celebrating three years of different.