

APRIL 2018

ServiceLine

— The Official Publication of the South Dakota Association of Rural Water Systems —

WEBSTER'S WATER WOES

A DAY IN THE LIFE OF A
CIRCUIT RIDER

**ELECTROMAGNETIC
LOCATING**

MEET THE NEW GUYS

DENNIS DAVIS RETIRES | EXPO AGENDA | SDARWS FISHING TOURNEY



Providing water and wastewater services to South Dakota for more than a century.

TRANSPORTATION + WATER + GOVERNMENTAL SERVICES + LAND DEVELOPMENT + ENVIRONMENTAL + CONSTRUCTION

▷ 431 N. Phillips Ave, Suite 400 | Sioux Falls, South Dakota ▷ P 605.334.4499 ▷ F 605.338.6124 ▷ HRGREEN.COM

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



To succeed, you need a partner that makes your job easier. With Dakota Supply Group, you get more than just pipe and products:

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



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

President's Message

Ron Gillen, SDARWS President



GOODBYE DENNY!

South Dakota Rural Water recently said goodbye to longtime Executive Director Dennis Davis as he retired after 39 years with the Association. We wish Dennis the best of luck in his future endeavors.

WATER TECHNOLOGY EXPO

South Dakota Rural Water is pleased to host the 2018 Water Technology EXPO. The EXPO is to be held in Rapid City at the Best Western Ramkota Hotel and Conference Center (605-343-8550) on April 25-26, 2018.

The EXPO is open to all water and wastewater utility staff, board/council members, engineers, State and Federal employees. The training will consist of twenty presentations, 30 minutes each, thus allocating ten contact hours for those individuals who are licensed operations specialists. Along with the training sessions, the EXPO will showcase many of our industry's manufacturer and supplier leaders. These professional companies will be set up in the main EXPO training center for attendee easy access and to provide answers to those pressing questions. Many will be displaying the recent advances in technology our industry has witnessed over the past several years.

The EXPO will kick off at 8:00 am Wednesday, April 25th and conclude at noon on Thursday, April 26th with lunch provided on the first day. Registration is \$40, and SDARWS can bill for this fee after the conference. Please pre-register by visiting our website at www.sdarws.com/west-river-expo.html. The full agenda is on page 11.

THIRD ANNUAL FISHING TOURNAMENT

SDARWS will be hosting a fishing tournament in Oacoma on Saturday, April 28th at the Cedar Shores Resort on Lake Francis Case. This tournament is limited to the first 50 teams of 2-3 fishermen and is open to current water/wastewater, associate or corporate members of SDARWS. The cost is \$100/team and includes lunch. More information is available on page 35. ♦

IN THIS ISSUE

- 5** Training Calendar
- 7** SDARWS Staff Directory
- 9** SDARWS Mailbag
- 11** EXPO Agenda
- 13** Meet the New Guys
- 15** Sioux Empire Water Festival Celebrates 25 Years
- 16** SDARWS Executive Director Transition
- 18** State and NRWA Member Benefits
- 21** A Day in the Life of a Circuit Rider: Mike Moeller
- 23** Webster's Water Woes
- 27** Electromagnetic Locating
- 29** Golf Tournament Information
- 31** Certification Questions
- 33** Tis The Season - To Turn Over Your Wastewater Lagoon
- 34** It's Time To Say Goodbye
- 35** Fishing Tournament Information

CORPORATE SPONSORS

Howalt+McDowell Insurance, Inc.
Risk Administration Services
Dakota Pump & Control
Dakota Supply Group
Treatment Resources, Inc.
Banner Associates
Bartlett & West, Inc.
DGR Engineering
Maguire Iron, Inc.
Core and Main
Dakota Pump Inc.
CoBank
Milbank WinWater
AE₂S

ServiceLine is published bimonthly by the South Dakota Association of Rural Water Systems. Copyright 2018.

Send Correspondence to:
South Dakota Association of Rural Water Systems
P.O. Box 287, Madison, SD 57042
Phone 605.556.7219, Fax 605.556.1497
email: info@sdarws.com



Bridging the gap between idea + achievement

Sioux Falls 605.977.7740
Rapid City 605.791.6100



hdrinc.com




Products & Services Portfolio

NRWA

The Power of Association

Only the National Rural Water Association can bring together this unique Products and Services Portfolio. Choose from website design & customer communications, to several insurance packages including health plans, data breach services, line & leak coverage, background screening as well as our Rural Water Loan Fund, all designed to meet the needs of utilities.

Tap into the power of America's Largest Utility Membership!

Call **800.545.1054** for more information
or go to nrwa.org email: info@nrwa.org



**NATIONAL
RURAL WATER
ASSOCIATION**
NRWA *America's Largest Utility Membership*

Availability may be limited in some states.

Training Calendar

MAY

1-3 – BASIC WATER TREATMENT

Sioux Falls Ramkota

3200 W. Maple Street • Sioux Falls, SD 57107

This course is designed to assist those who will be attempting a class I Water Treatment Exam. This is a multiple day course starting at 8:00 a.m. on Tuesday and ending at Noon on Thursday (all times are local time). A minimum of 18 contact hours will be awarded for full attendance. Material covered is based on the ABC Need to Know Requirements for Class I Water Treatment.

8 – SMALL WATER TREATMENT WORKSHOP

Aberdeen Ramkota

1400 8th Avenue NW • Aberdeen, SD 57401

This course covers the material on the Association of Boards of Certification Small Water Treatment Exams. This is a single day workshop starting at 8:30 a.m. local time and wrapping up around 4:30 p.m.

10 – SMALL WATER TREATMENT WORKSHOP

Rapid City Ramkota

2111 N. LaCrosse Street • Rapid City, SD 57701

This course covers the material on the Association of Boards of Certification Small Water Treatment Exams. This is a single day workshop starting at 8:30 a.m. local time and wrapping up around 4:30 p.m.

22-24 – ADVANCED WASTEWATER TREATMENT

Rapid City Ramkota

2111 N. LaCrosse Street • Rapid City, SD 57701

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class III & IV Wastewater Treatment Exams. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

JULY

10-12 – BASIC WATER TREATMENT

Huron Crossroads Hotel

100 4th Street SW • Huron, SD 57350

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I & II Water Treatment Exams. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

AUGUST

7-9 – WATER DISTRIBUTION

Aberdeen Ramkota

1400 8th Avenue NW • Aberdeen, SD 57401

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I through III Water Distribution Exams. This course only covers the material for Water Distribution. Operations Specialists who wish to attempt a Wastewater Collection Exam should attend the Wastewater Collection Course. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

28-30 – WASTEWATER COLLECTION

Watertown Events Center

1901 9th Avenue SW • Watertown, SD 57201

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I through III Wastewater Distribution Collection Exams. This course only covers the material for Wastewater Collection. Operations Specialists who wish to attempt a Water Distribution Exam should attend the Water Distribution Course. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

SEPTEMBER

25-27 – INTERMEDIATE WATER TREATMENT

Spearfish Holiday Inn

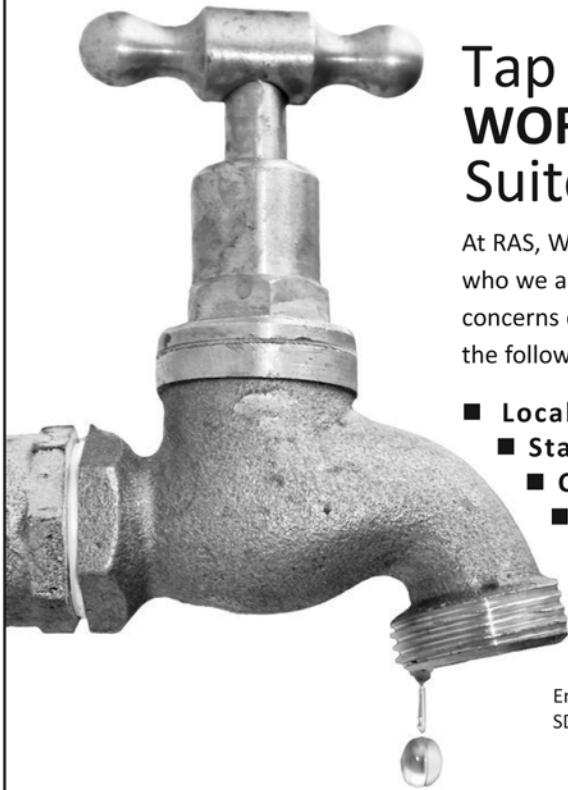
305 N. 27th Street • Spearfish, SD 57783

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class II & III Water Treatment Exams. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

**REGISTER FOR CLASSES ONLINE AT:
go.activecalendar.com/sdarws**

Course agendas, maps and registration are all available online at www.sdarws.com. All classes are free unless otherwise noted. For more info on these and other events, visit www.sdarws.com or call 605-556-7219.

You can find the “Need to Know” document along with other information @ http://www.abccert.org/testing_services/2017WaterTreatmentExams.asp



Tap into a **WORKERS' COMPENSATION PROGRAM** Suited for You

At RAS, Workers' Compensation is our primary focus. It's what we do, and who we are. We have the knowledge and experience to address specific concerns or situations. We cover businesses across the spectrum and offer the following services:

- **Local Claims and Case Management**
- **Stay at Work/Return to Work Assistance**
- **Cost Containment Services**
- **Loss Prevention and Training**

For more information contact our association agency partner, Jack Miller, Howalt+McDowell Insurance Agency at 800.584.7054.

Endorsed Workers' Compensation carrier for the SD Rural Water Association for over 10 years.

RAS

RISK ADMINISTRATION SERVICES, INC.

WORKERS' COMPENSATION.
Our Focus. Your Opportunity.SM

www.rascompanies.com
1.800.732.1486

MILBANK
WinwaterTM
COMPANY

S. Hwy. 15 • P.O. Box 350
Milbank, SD 57252
1-800-743-2972
Fax 605-432-5447

*Large enough to handle any job,
but small enough to care about yours.*

- WATER PRODUCTS
- INDUSTRIAL PIPING
- WATER METER SYSTEMS
- PUMP SYSTEMS
- GEO TEXTILE FABRIC
- ROAD CASTINGS

SDARWS STAFF DIRECTORY



KURT PFEIFLE

Executive Director

kpfeifle@sdarws.com
605-204-0125



NICK JACKSON

*Technical Assistance
Training Specialist*

njackson@sdarws.com
605-641-4557



JIM ZECK

Training Specialist

jzeck@sdarws.com
605-201-9568



MIKE MOELLER

*Technical Assistance
Training Specialist*

mmoeller@sdarws.com
605-270-4989



STEVE ATTEMA

Training Specialist

sattema@sdarws.com
605-270-1766



BRANT AGER

West River Circuit Rider

bager@sdarws.com
605-641-1923



JEREMIAH CORBIN

*Source Water Protection
Specialist*

jcorbin@sdarws.com
605-270-3894



GREG GROSS

East River Circuit Rider

ggross@sdarws.com
605-201-6026



ROBYN BROTHERS

Office Manager

rbrothers@sdarws.com
605-556-7219



JEFF FOSSUM

East River Circuit Rider

jfossom@sdarws.com
605-201-9561



JENNIFER BAME

*Communications &
Marketing Coordinator*

jbame@sdarws.com
605-556-7219



BILL THORSON

Wastewater Technician

bthorson@sdarws.com
605-201-0170

engineering
a better
community

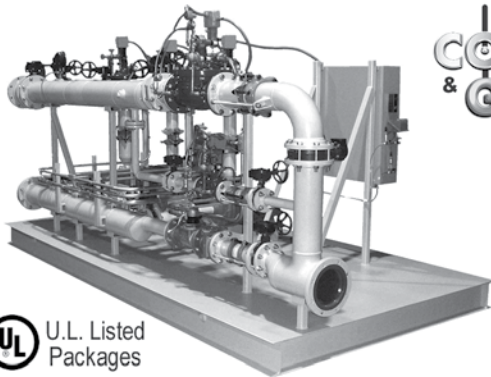
water | wastewater

Mni Wasté Water Supply Project | Cheyenne River Sioux Reservation | North Central SD

Brookings | Sioux Falls | Vermillion | Rapid City | Milbank
605.692.6342 | Toll Free 1.855.323.6342
www.bannerassociates.com

BANNER
engineering a better community

DAKOTA PUMP INC.

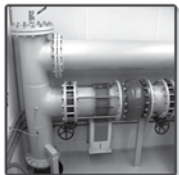


CONNECT
& **G** Technology

UL U.L. Listed
Packages

Sewage Pump Stations

- Wet Well Mounted Lift Stations
- Flooded Suction Lift Stations
- Self-Priming Lift Stations
- Obround Package Pump Stations



The Total Solution

Water Pump Stations

- Modular Water Booster Stations
- Grade Mounted Water Booster Stations
- Water Booster Pump Stations
- Water Control Vaults

Why Prefabricated?

- Fully factory tested
- Ease of installation
- Simplified design
- Single source responsibility



Dakota Pump Offices:

po box 947 ~ 25524 413th Ave ~ Mitchell, SD 57301 ~
ph.605.996.6636 ~ fax. 605.996.6067 ~ dakotapump.com



SDARWS MAILBAG



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

Town of Buffalo Gap
Box 295
Buffalo Gap, SD 57722

November 30, 2017

Dennis N. Davis, Executive Director
South Dakota Association of Rural Water Systems
PO Box 287
Madison, SD 57042-0287

Dear Mr. Davis:

The South Dakota Department of Environment and Natural Resources wishes to acknowledge and thank Mr. Jerry Hemeyer and other staff who have been vital in assisting the communities of South Dakota to achieve the proper operation and maintenance training.

Over the last several years, Mr. Hemeyer has helped organize numerous trainings with Department staff to assist wastewater operators with meeting federal electronic reporting requirements. In addition, Mr. Hemeyer's knowledge of many of South Dakota's municipal wastewater systems and its operators has helped to propel these facilities reporting into the 21st Century.

Thank you for your continued efforts to protect the environment and natural resources of South Dakota.

Sincerely,

Steven M. Pirner
Secretary

cc: Mr. Jerry Hemeyer, PO Box 287, Madison, SD 57042

November 29, 2017

To Whom It May Concern,

We would like to express our appreciation to Brant Ager and SDARWS for their effort and time. They have helped our small town and water system greatly over the years, especially this past summer with main valve maintenance and main line directional flushing.

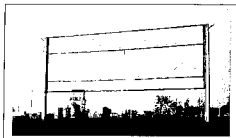
Our town was in need of upkeep and routine maintenance. We had several unworkable valves due to debris or lack of use and discolored water. Brant performed directional flushing on our system. During the two days it took to flush, we discovered three shut valves; one being a primary feed line from our storage tank. Being able to open that valve increased volume and opened a loop for our system. We also flushed a lot of sand and iron flakes out of the system. The directional flushing has improved our water quality thus improving our citizens confidence in our water.

Brant Ager also cleaned out all of our main valves and reset eight of them. We are now able to access all valves, allowing us to shut off small sections of town instead of searching for valves and shutting off large blocks.

Brant Ager recommended valve exercising for the system. He exercised all the main valves which returned many of them to one-person, easy operating condition. We feel the valve exercising was highly important because we have only one, part-time certified water operator. He needs valves in good condition because he is often the only one working on the system. The town of Buffalo Gap could not function for long without the technical assistance and expertise of SDARWS. Brant Ager's time and knowledge are deeply appreciated. We look forward to working with SDARWS again.

Board President and Operator,

Todd Heck



CITY OF TIMBER LAKE
700 MAIN STREET
PO BOX 431
TIMBER LAKE, SOUTH DAKOTA 57676
TELEPHONE: 605-865-3790
FAX: 605-865-3168
WEB: <http://www.tisd.us>

City of St Lawrence
PO BOX 37
St Lawrence, SD 57373

To: SDARWS

The City of St Lawrence would like to thank SDARWS for their assistance with leak detection and valve box cleaning in our town. The work took several days and many man hours from SDARWS. The leak in St Lawrence was over 20 gallons per minute costing the city \$5500 per month. SDARW brought leak detection equipment to town. The leak was finally narrowed to a one block area. The leak was the result of an abandon line leaking in a defective sewer pipe. The repair crew shut off the service underground and stopped the leak. After the repairs were made, the city's water consumption returned to normal and the wastewater lagoon also return to normal operating levels.

Finding this leak not only saved money for the city, but also reduced the amount of water going into the wastewater system.

Sincerely

St Lawrence City Finance Officer

Nanette Christiansen

St Lawrence City Board President

Shirley Peck

December 4, 2017

Dennis Davis
South Dakota Association of Rural Water Systems
PO Box 287
Madison SD 57042

Dear Mr. Davis:

Please accept this letter of appreciation from the City of Timber Lake. The City is extremely grateful to Mr. Jerry Hemeyer, Wastewater Technician for South Dakota Association of Rural Water Systems, for his assistance, expertise, and technical assistance.

He has provided tremendous assistance to the City of Timber Lake over many years. Most notably, however, is his recent assistance with polly-pigging the sewer force main from the lift station to the sewer lagoon. This system was installed in the 1980's and had never been cleaned. With Hemeyer's assistance, the line was cleaned which increased the flow from 138 gallons per minute to 208 gallons per minute. This significant system improvement will decrease the electrical costs and reduce pump maintenance costs for the City of Timber Lake.

The City of Timber Lake greatly relies on Jerry for his assistance, expertise, and guidance. The City would experience a true hardship if we did not have valuable resources like Mr. Hemeyer and the SD Association of Rural Water Systems readily available.

Thank you, Jerry!

Sincerely,

Clyde E. Pfeifle, Mayor
City of Timber Lake

PLEASE SEND LETTERS!

SDARWS asks for your letters of appreciation in return for our on-site assistance.

These letters are used to help obtain funding to continue these programs.

Please submit letters to: info@sdarws.com; or SDARWS • PO Box 287 • Madison, SD 57042

SDARWS MEMBERSHIP CORNER



32ND ANNUAL RURAL WATER OPEN

July 17, 2018

ELMWOOD GOLF COURSE | SIOUX FALLS

For more info, visit sdarws.com,
call 605-556-7219, or email golf@sdarws.com.

WE LOVE GETTING MAIL!

Please send us your letters of support!

The hard work of dedicated SDARWS employees helps South Dakota's rural water and wastewater systems to have safe, reliable and quality water. SDARWS asks for your letters of appreciation in return for our on-site assistance. These letters are used to help obtain funding to continue these programs.

Please submit letters via email to: info@sdarws.com

or by mail to:

South Dakota Rural Water
PO Box 287
Madison, SD 57042

ARE YOU ON OUR EMAIL LIST?

Don't miss out on event details, training updates, job postings and other important information!

Email info@sdarws.com to be added to our list.

TWITTER

Are you on Twitter?

Follow us at
[@SDRuralWater](https://twitter.com/SDRuralWater)



FACEBOOK

LIKE us on Facebook

[www.facebook.com/
SDRuralWater](http://www.facebook.com/SDRuralWater)



ARTICLE SUBMISSIONS

Does your company have information to share that would be of value to our readership? If so, we would welcome your article submission for *ServiceLine Magazine*.

To send us an article, please email:
jbame@sdarws.com.

NOTE: SDARWS reserves the right to refuse any and all article requests.



3RD ANNUAL SOUTH DAKOTA RURAL WATER WARRIORS FISHING TOURNAMENT APRIL 28, 2018

Open to current water/
wastewater, associate or
corporate members of
SDARWS. \$100/team

**FOR MORE INFO,
VISIT SDARWS.COM,
CALL 605-556-7219,
OR EMAIL
mmoeller@sdarws.com**

MAKE PLANS TO ATTEND

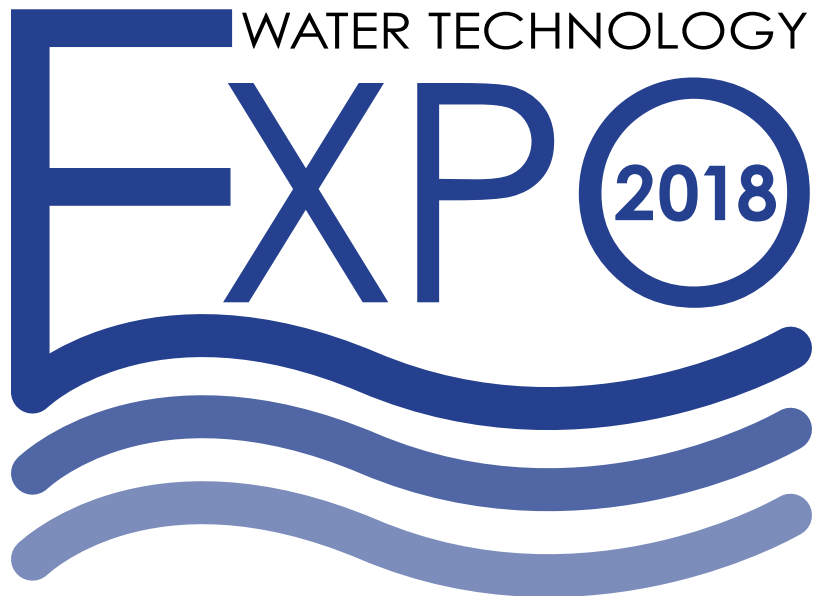
Contact Hours

Door Prizes • Lunch

\$40 Registration Fee

TO REGISTER

visit our website at:
[www.sdarws.com/
west-river-expo.html](http://www.sdarws.com/west-river-expo.html)



April 25-26, 2018

BEST WESTERN RAMKOTA HOTEL - RAPID CITY

WEDNESDAY, APRIL 25, 2018

- 7:30am **Registration – Refreshments – Visit Displays**
- 8:15am **Welcome, Agenda Review**
- 8:30am **GIS and Asset Data Management**
– Chad Sparks, Midland GIS Solutions
- 9:15am **Green Energy**
– Tanner Jobgen, GenPro Energy
- 10:00am **Refreshment Break – Visit Displays**
- 10:30am **Biokat – A “Green” Way to Odor Control**
– Tim Donovan, Hawkins Water Treatment
- 11:00am **Leadership – Instilling Community Trust in Your Water Utility**
– Erin Dreis, SD DENR
- 11:30am **Apprentice Program**
– John Bolger, Department of Labor
- 12:00pm **Deli Bar Buffet Lunch**
- 1:00pm **Water Storage Tank Asset Management**
– Jamie Mays, SUEZ Advanced Solutions
- 1:30pm **Damage Prevention**
– Larry Janes, SD 811
- 2:00pm **Intro to UAVs for Rural Water Systems**
– Justin Huntley, Banner Associates
- 2:45pm **Refreshment Break – Visit Displays**

- 3:00pm **Alpha Joint Restraints**
– Chris Ruskamp, American Flow Control
- 3:30pm **Technology Advances in Leak Detection**
– Michael Carothers, Sewerin / Leak Locators of Montana
- 4:15pm **SCADA: Advances in Control Systems**
– Will Lind, Dakota Pump Inc.
- 4:45pm **Door Prizes – Adjourn**

THURSDAY, APRIL 26, 2018

- 7:30am **Coffee, Juice, & Rolls**
- 8:00am **Smelly Facultative Wastewater Ponds Your Problem?**
– Craig Steve, Medora Corporation
- 8:45am **Strategies for Collecting Field Data**
– David Siddel, CompassTools
- 9:30am **Refreshment Break – Visit Displays**
- 10:00am **RTK Without the Base**
– Alan Woytassek, Midstates VRS
- 10:30am **Rural Development Funding**
– Tim Potts, USDA Rural Development
- 11:00am **W.L. Plastics Plant Tour**

This is a tentative agenda. Topics and times are subject to change.



Have a complex
water treatment project?
We can help.

Treatment Resources' fifty years of combined experience in water treatment makes us uniquely qualified to meet your objectives. We represent the finest manufacturers in the industry and have worked with hundreds of municipalities and their consulting engineers to solve their water treatment problems. For more information visit us online or call us at (651) 702-2692.



800-211-6432
www.electricpump.com

115 Lipton Street
Suite B
Tea, SD 57064

402-333-9660
www.mc2h2o.com

MEET THE NEW GUYS



JEFF FOSSUM, CIRCUIT RIDER

South Dakota Rural Water recently hired two new employees to replace Morris Elcock and Jerry Hemeyer who retired earlier this year. Jeff Fossum has jumped into the position of Circuit Rider, and Bill Thorson has taken on the role of Wastewater Technician.

Jeff was employed by the City of Canton South Dakota for the past 33 years before joining the team at SDARWS. He holds certifications in Class II Water Treatment, Class II Water Distribution, Class II Wastewater Treatment, and Class II Wastewater Collection.

"I have always looked up to South Dakota Association of Rural Water Systems. I remember Don Pospishil, Sid Munson, Morris Elcock, Jerry Hemeyer, and now the past Executive Director Denny Davis – all good people to be associated with. I am looking forward to meeting and helping rural South Dakota system operators," said Jeff.

Jeff grew up on a livestock and grain farm and is an old farmer



BILL THORSON, WASTEWATER TECHNICIAN

at heart. He enjoys driving around on back roads (his wife says he drives faster on gravel than on pavement), drinking coffee, good conversation with total strangers, and sharing the lessons he's learned at the School of Hard Knocks (taught by Professor Murphy).

His hobbies include gardening both vegetable and flowers. Jeff also likes to make "sawdust" (rebuilding things that are broken and are bound for the garbage), and working on his century home of the last 35 years.

Jeff attended 1st – 7th grades in a rural one-room school with less than ten students. He is actively involved with his home church, Grand Valley Lutheran where he has served in most positions and boards.

His family consists of June his wife of 35 years, two adult sons – Erik and wife Pastor Bailey of Luverne, MN, and Josh of Peoria, IL.

...continued on page 14

SPN & ASSOCIATES

ENGINEERS SURVEYORS GIS SERVICES

Schmucker, Paul, Nohr and Associates

2100 N. Sanborn Blvd – PO Box 398
Mitchell, SD 57301
Phone (605) 996-7761
FAX (605) 996-0015
www.spn-assoc.com

Water • Wastewater • Storm Water • Streets
Airports • Solid Waste • Animal Waste
Land Surveying • Site Development
Geographic Information Systems (GIS)



**ENGINEERING EXCELLENCE
SINCE 1961**

MEET THE NEW GUYS: continued from page 13...

Bill comes to SDARWS with 28 years experience in municipal government with 21 years of experience as a certified operator. He holds certifications in Class II Water Treatment, Class II Wastewater Treatment, Class II Water Distribution, and Class II Wastewater Collection.

"I look forward to the opportunity to work with and meet operators in South Dakota. Many of the cities in South Dakota only have one or two employees, and with stricter limits and regulations on Wastewater systems, many of the operators have questions. It may be a simple phone call or a site visit for operational questions, but that is the interesting and exciting part of the job," says Bill.

Bill's hobbies range from cars and electronics to shooting sports. He has been a 4-H Shooting Sports instructor for the last seventeen years in rifle and shotgun disciplines and is also a Basic Pistol trainer for the NRA and an Advanced Concealed Carry trainer in South Dakota." Training others

in the shooting disciplines is rewarding when seeing others improve their shooting skills or introducing new shooters to the sport," says Bill.

He attended first through third grade in a one-room country school and graduated college with a Bachelors of Science degree in Public Administration from the University of Phoenix at the age of 47; therefore he considers himself to be a life-long learner and not a slow learner as his timeline suggests. He is also a lifelong member of the Lands Lutheran Church in rural Hudson.

Bill's family consists of Wendy, his wife of five years, two sons and a daughter ranging from 20-28 years old, an 18-month old granddaughter, another grandchild on the way, and three step-grandsons.

Please join us in welcoming these two individuals into the SDARWS family!♦

SIoux EMPIRE WATER FESTIVAL CELEBRATES 25 YEARS

By Jeremiah Corbin, Source Water Protection Specialist

The Sioux Empire Water Festival enjoyed its 25th year of education and entertainment earlier this spring on March 13 and 14. The event was hosted at the University of Sioux Falls campus during their spring break. The festival included 24 educational presentations in classrooms and 31 hands-on exhibit hall displays in the Stewart Center.

Thousands of area fourth grade students attended the 2-day event that covered a full gambit of water-related topics. SDARWS Source Water Protection Specialist presented the envirosapes watershed model at the first day of the exhibit hall; the second-day students participated in the Mystery of Sandy Bottom Creek activity, which teaches students about bioaccumulation. Each session lasted 20 minutes and educated the students about how groundwater can become contaminated and potential contaminants that can move within the water.

Events such as the Sioux Empire Water Festival are well suited for the educational component of a source water protection plan. For most plans, public education plays a pivotal role in successful source water protection implementation.

The Sioux Empire Water Festival is an educational event where area children learn about water. This precious resource is a central factor in all aspects of our lives. The goal of the festival is to increase awareness of the many uses of water and to preserve its quality for future generations. The festival focuses on educating 4th graders as that is the year that they are introduced to the water cycle.

Water Festivals such as the Sioux Empire Water Festival give water professionals an opportunity to reach out to children and



reinforce the importance of activities that conserve and protect our most important resource.

The Sioux Empire Water Festival is the largest multi-day water festival in South Dakota. The largest single-day festival is the Big Sioux Water Festival which will be held on May 15 at the South Dakota State University campus in Brookings. ♠

For more information on the Sioux Empire Water Festival, visit <https://sewf.org/>



The Water Fest Planning Committee is pictured above: Front row (left to right): Alicia Petersen SDSU Extension 4-H Youth Program advisor - McCook County; Mary Lou Lacey, NRCS; Jill Van Veldhuizen, Siouxland Heritage Museums; Lynda Johnson, Lincoln Conservation District; Katherine Jaeger, SDSU Extension youth outdoor education field specialist; Amber Lounsbury, USGS/EROS and Karen Meyer, SF Water Reclamation. Back row (left to right): Chuck Martinell, SDSU Extension 4-H Youth Program advisor - Minnehaha County; Jeremiah Corbin, South Dakota Association of Rural Water Systems; John Parker, Minnehaha Conservation District; Rick Lehman, NRCS and Hersch Smith, NRCS. iGrow photo

EXECUTIVE DIRECTOR TRANSITION

GOODBYE DENNIS / HELLO KURT

South Dakota Rural Water Executive Director Dennis Davis has officially retired after 39 years with the Association. Kurt Pfeifle, manager of the Mid-Dakota Rural Water System, was hired as his replacement. A Hello/Goodbye Open House took place on March 29, 2018, at the SDARWS Office in Madison. The final transition took place on April 5, 2018, at the Association's April Board Meeting in Pierre.





State & National Rural Water Association

MEMBER BENEFITS

✓ State & National Rural Water Associations Advance the Industry, its Personnel and Expertise!

Eight State Rural Water Associations came together in 1976 to fill a much needed role in representing rural and small systems in legislation, regulatory and federal policy areas. Today, all 50 states combine their collective knowledge and membership to be the leading voice for water and wastewater systems in each state and on the national stage. The results speak for themselves. From building, upgrading and expanding service areas, to supporting the rural economy, your association is here to serve its membership. Thank you for your support of your State and National Rural Water Association.

- Utility Management Certification through Water University
- State training courses, online courses and webinars provided on a daily basis
- WaterPro Community offers learning opportunities and connects the industry 24/7
- Specialized advanced conferences and training to meet the most relevant needs

✓ Shape Federal Water Policy

State Associations join together as one on the national level through the National Rural Water Association to shape Federal water policy in agencies and Congress. Our full-time, bi-partisan professional staff in DC has extensive experience in the legislative and regulatory process. They help guide common-sense policy and legislation that continues our success in representing your utility, including accessing the highest levels of agencies. For example, NRWA's leadership recently met with EPA Administrator Scott Pruitt and discussed regulatory reform to benefit your utility. Your State and National Association's success and benefits include, but are not limited to:

- Experts in drafting assistance and comments on legislation, testimony and budget activities
- Coalition building
- Establishing effective strategy, policy and regulatory activities necessary to represent the industry on a continuous basis with proven results:

FY2017- \$50 million increase in USDA RUS Water and Waste Loans and Grants
SRF levels maintained

Rural Water members congressional testimony on Farm Bill policies and proposed legislation

Rural Water members congressional testimony on infrastructure proposal

Rural Water members congressional testimony on EPA funding and proposed legislative changes

Participated with White House staff on President's infrastructure bill to ensure membership needs are included in the final bill

Annual Rural Water Rally in DC

Annual Regional and District Forum and discussion with leadership from agencies and Congressional policy makers

Retention of 1926(b) protection of district and regional service areas from annexation –
Estimated savings of \$11,550,871,000

E-delivery of Water Quality Reports/Consumer Confidence Reports – *Estimated savings of \$126,000,000*

Successful legislation exempting fire hydrants from new lead standards – *Estimated savings of \$3,100,000,000*

Filing of Amicus Brief in US 6th Circuit Court opposing Waters of the US regulation (WOTUS)

Participation in Revised Total Coliform Federal Advisory Group – *Estimated savings of \$126,000,000*

✓ Continuous Representation of Rural Water Membership:

Your association represents the membership on a continuous basis as deliberations take place at all levels. Tapping the membership who govern, manage and/or operate water and wastewater systems to participate in these meetings and workgroups is the key to success. Your systems are continually represented on:

- EPA National Drinking Water Advisory Council
- AWWA's Water Utility Council
- DHS Water Sector Coordinating Council
- EPA Lead & Copper Rule Rulemaking
- EPA Nutrient Removal and Secondary Technologies Questionnaire Workgroup
- National Lead Service Line Removal Collaborative
- Many other collaborations!

✓ Stay Informed

Your association offers multi-avenues to stay abreast of water industry news in-state and on the national level. From personal communications, social media, print and electronic publications, information and communication connects you with your association and the industry.

- State Conferences and the WaterPro Conference
- Annual District/Regional Water System Issues Forum
- State Association magazine and newsletters
- Rural Water Magazine and E-newsletters
- WaterProcommunity.org – connecting the industry 24/7
- Weekly regulatory and legislative updates

Our grassroots approach includes all 50 states. State Associations have respected and well-established relationships with all members of Congress, state legislators and state & federal agencies. This grassroots approach allows NRWA to advance your agenda while adapting to the constant changing political landscape including leadership changes on Capitol Hill. **Your membership is the strength of this association!** When local elected officials and professionals from every level of the industry are involved, it translates into the largest and most effective legislative and regulatory advocacy for the water and wastewater industry.

✓ The Power of Association

Only State & National Rural Water Associations bring together unique products and services designed to meet the needs your utility. Knowledge is the key to success. Explore these valuable resources by visiting your State Rural Water Association or www.nrwa.org today!

Team Rural Water, the Nation's Largest Utility Membership



IT MATTERS.

WATER. It grows our children and crops.
It develops our cities and country.
It powers our industries and businesses.
It cleanses our bodies and the land.

Providing water engineering and related services to help clients achieve success.

WATER ENGINEERING | CIVIL ENGINEERING | LAND SERVICES | SURVEY/MAPPING/GIS
MUNICIPAL FINANCIAL SERVICES | ASSET MANAGEMENT | INSTRUMENTATION & CONTROLS
ELECTRICAL ENGINEERING | STRUCTURAL ENGINEERING | COMMUNICATION SERVICES

THINK BIG. GO BEYOND.



Advanced Engineering and Environmental Services, Inc.
South Dakota Offices: Rapid City, Sioux Falls, Spearfish

www.ae2s.com

Chemicals, Equipment and Service for **Safe, Clean Water**



www.hawkinsinc.com

Water Treatment

- Potable Water
- Raw Water Clarification
- Swimming Pools
- Boiler & Cooling Systems
- Wastewater
- Waste De-Watering
- Waste Settling Aids
- Collection Systems

Equipment:

- Chemical Injection Pumps
- Control and Monitoring Systems
- Chlorination Control Systems
- Chemical Feed Equipment

Black Hawk, SD
605.787.6881

Fargo, ND
701.293.9618

Sioux Falls, SD
605.368.5793

Washburn, ND
701.462.8588

A DAY IN THE LIFE OF A CIRCUIT RIDER

MIKE MOELLER

What was your first job? My first job was a forklift operator in a factory that produced french fries.

What was your first water related job? My first water-related job started in 1998 when I started working for Dakota Pump and Control. Dakota Pump and Control is a company that sells and services pumps for municipalities.

What does your typical day as a Circuit Rider entail? My typical day as a Circuit Rider varies from a multitude of things. One day maybe leak detection and the next could be gathering GPS locations of valves and curb stops. In all, I could be doing anything that is water related to help systems with their problems.

What's your favorite thing about being a Circuit Rider?

The job is never the same from one day to the next. Every location is a new job with different challenges.

What's the most challenging job you've ever undertaken as a Circuit Rider?

The most challenging task I would have to say would be creating a map for the City of Ft. Pierre. With a population of just over 2,000, it was quite the challenge to locate and map all the features that make up their water system.

How do you think rural water systems could operate more effectively? Use the resources available to you, whether it is your state association or a neighboring system. There is always someone who can help you or advise you on whatever you are working on.

What's the best advice you could give to rural water systems? Communicate and listen to their member needs, long-range planning is



vital to turn success. Also communicate and listen to their employees, take care of them with the best benefits possible for long-term retention because it is the employee that will help you meet the demands of your members.

What advice would you give to a young person who wants to embark on a water career? If it is what you want to do, then do it. There is going to be a massive turnover in the water industry soon with the aging workforce that is currently there, and employment opportunities will be plentiful. ♦

City of Clark | Lagoon Project



CLEANING WATER FOR TODAY, SUSTAINING WATER FOR OUR COMMUNITIES TOMORROW.

Water and Wastewater

Clark designs seamlessly integrated solutions to deliver state-of-the-art water and wastewater systems with lasting results.

We will meet your requirements while conserving valuable resources.

Choose Clark to design your next project.



■ Clark-eng.com Aberdeen | Minneapolis | Pierre | Sioux Falls | Watertown

MAKE YOUR WATER TANK LAST...

LET MAGUIRE IRON HELP EXTEND THE LIFE SPAN OF YOUR TANK AND INFRASTRUCTURE.

- Maintenance Contracts
- Interior & Exterior Paint and Repair
- Tank Mixing Systems
- Chemical Cleaning
- Component Replacement

READY TO REPLACE? MAGUIRE IRON ALSO DESIGNS, FABRICATES AND ERECTS NEW TANKS.



McCrory, AR
Built 1936



YEARS OF MAGUIRE IRON

MAGUIREIRON.COM | 605 334-9749
WATER TOWER SPECIALISTS SINCE 1915

With proper maintenance, tanks can last as long as we have!



WEBSTER'S WATER WOES

By Greg Gross, SDARWS Circuit Rider

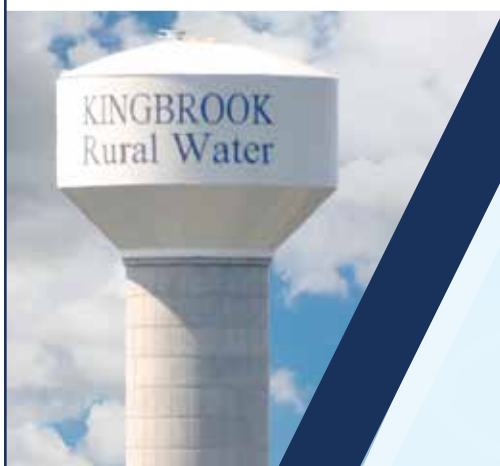
March came in like a lamb in most of South Dakota, but for the City of Webster, it roared like a lion. On Sunday night, the city noticed an increase in water usage. City workers searched for several hours and found a leak on the west side of town. The feeling of relief ended Monday morning when the consumption continued to increase. I was called to assist with this severe situation because the leak was exceeding 200 gallons per minute. At 3:00 pm on Monday, water was shut off to the entire city because the leak was draining the water tower and ground storage. Because of the water shortage, Webster's schools released early on Monday and canceled classes on Tuesday and Wednesday. There was also a concern for the water needs of the hospital and the nursing home. To further complicate the situation, the weather was warming enough to melt the snow and ice rapidly. Water began pooling in low spots and running down every street making it impossible to distinguish between a major leak and normal melting.

At 10:00 pm I joined city employees, county emergency management personnel, and technicians from WEB Water Development Association to begin pressurizing the system. Searching through the night, we found two leaking fire hydrants, but no significant leaks. At 4:00 am I decided to get a little sleep before starting again at first light. I was curious to see if the snow had melted in my garbage can so I could flush the toilet in my motel bathroom. Wednesday morning began with no shower or coffee. Jeff Fossum from SDARWS arrived to join the search. The city coordinated with SDARWS and WEB to help isolate the leak. On Wednesday afternoon, we isolated the leak to a two-block area. The SDARWS correlator was used to pinpoint the location of the leak. It was critical to efficiently find and fix this leak because the hospital and nursing home would have to be shut off to work on this section of mainline. At 4:00 pm the repair crew began digging and discovered a broken 2" service line. All the water was escaping through the city storm sewer and would have never reached the surface. By 7:30 pm the city completed the repair and Webster's water system returned to normal operating conditions. It was a relief to the entire town to have the water system returned to normal, but



not after the city ordered a boil order due to the depletion of the system pressure and possible contamination.

This experience made me very proud to be part of SDARWS, and I would like to thank everyone at SDARWS who assisted with this event either by being onsite, ready at the phone, or willing to travel across the state to lend a hand. ♠



Bringing
Quality Water
 to Rural America for over 60 Years

Drinking Water

- Supply
- Treatment
- Storage
- Distribution

Wastewater

- Treatment
- Collection
- Lift Stations
- Sewer Rehab



Sioux Falls & Yankton, SD
 Rock Rapids, Sioux City
 & Ankeny, IA

800-446-2531

Trusted. Professional. Solutions.

dgr.com



METER & AUTOMATION



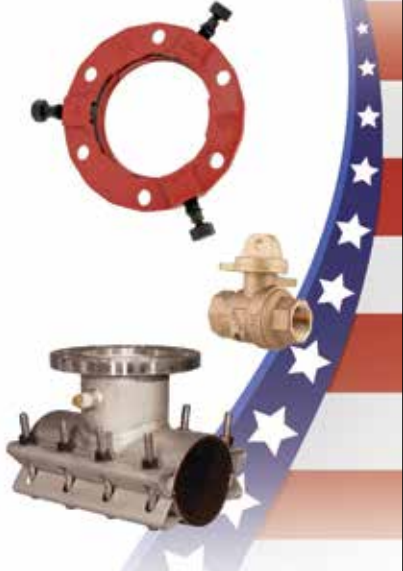
Fargo	Bismarck	Blaine
1917 1st Ave. N (701) 293-5511	1201 Airport Rd. (701) 258-9700	1694 91st Ave. NE (763) 560-5200

Find the closest waterworks location near you by visiting
FERGUSON.COM/WATERWORKS

©2017 Ferguson Enterprises, Inc. 0417 421536

Made in the USA!

Look to Ford Meter Box for
U.S. Manufactured Products



FORD www.fordmeterbox.com/usa
260-563-3171

Contact Ford Meter Box for AIS and
Buy America compliant products

**YOUR
ADVERTISEMENT
COULD BE
HERE!**

**Interested?
Contact Jennifer
jbame@sdarws.com**

MAKE PLANS TO ATTEND



April 25-26, 2018

**BEST WESTERN RAMKOTA HOTEL
2111 NORTH LACROSSE STREET
RAPID CITY, SOUTH DAKOTA**

***This 1½ day event includes
presentations and features
exhibit displays.***

Contact Hours • Door Prizes
Lunch will be provided on Day One

REGISTER ONLINE

www.sdarws.com/west-river-expo.html
or email expo@sdarws.com

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

5900 S WESTERN AVE, STE 101 ■ SIOUX FALLS SD ■ 605.274.7415 ■ BARTWEST.COM

hm Howalt+McDowell Insurance

MARSH & MCLENNAN
AGENCY



Commercial Insurance specializing in:

Agriculture | Construction | Healthcare | Hospitality
Manufacturing | Non-Profit | Retail/Wholesale | Rural Water

Personal Insurance specializing in:

Home | Car | Boat | RV | ATV | Umbrella

Life & Health Insurance specializing in:

Employee Benefits | Wellness | Consulting

300 N Cherapa Place 6th Floor
Sioux Falls, South Dakota
605 339-3874
www.howaltmcdowell.com

WORLD CLASS. LOCAL TOUCH.

ELECTROMAGNETIC LOCATING



**By Brant Ager,
SDARWS Technical
Assistance Training
Specialist**

Spring is approaching quickly, and with that comes another season – construction season. We all know when construction arrives it brings with it an array of duties to our water and wastewater operators. Duties may include supervising projects, assisting with tapping lines, and working valves. But let's not forget the essential item before construction can begin is to locate the system's utilities. Our focus in this article will be about electromagnetic locating.

The electromagnetic theory used by present-day locators was adopted as early as the 1820's. In 1931 Dr. Gerhard R. invented the first metal detector. Dr. Gerhard's initiative opened the doors to field locating. In 1979 Earl Peterman of Metrotech developed the first multi-antenna receiver. These discoveries brought us to what we use

today. Present day locators have GPS capabilities, Bluetooth, line direction, touch screens, depth gauges and three antenna configurations.

Relating back to my own Subsite Utiliguard standard locator, many other electromagnetic locators include a transmitter, receiver, ground spike, direct connect leads, a variety of frequencies and antenna configuration. There are three primary transmitter functions. These include using direct connect leads which is the standard practice. The leads are most effective in conjunction with tracer wire to locate your target line. Direct connect leads also work well on copper or iron pipe services. An additional tracer wire can be inserted live down service lines for non-metallic services. Another connection option is an induction clamp. This C-shaped clamp is placed around metallic pipe or conduit around the target line and induces a frequency down the line for locating. A final option is available for locators enduring tough times with no wire or access to the target utility. The last option is broadcast mode. In this mode, the transmitter is placed on the ground in-line, directly over the target line and at full power. Starting next to a valve is the easiest way to get started in this mode. The broadcast feature

...continued on page 28



Thompson Knows Controls & Automation



SYSTEM DESIGN & ENGINEERING



SCADA/HMI SYSTEMS DEVELOPMENT



UL CERTIFIED CUSTOM CONTROL PANEL FABRICATION



MAINTENANCE SERVICE HARDWARE/PROGRAMMING



Thompson Automation and Specialty Services



Controls & Automation



Electrical Maintenance



Electrical Safety



Engineering Services



Sustainability

thompsonspecialty.com

844.321.3869

ELECTROMAGNETIC LOCATING: continued from page 27...

only works on metallic lines and provides a last resort for locators.

The receiver has three variations of antenna combination. The first configuration is null. Null provides a sharp response. You will lose signal directly over the line because the signal is at its lowest at that point. Null is best for non-congested areas and uses two vertical antennas. More accurate and less broad is the peak antenna. Peak uses one horizontal antenna. It will pick up deeper, weaker signals and works well in non-congested areas. The signal will be highest directly over the line. While using peak, the receiver must be held at a 90-degree angle to the target line and will not be affected by overheads. The most accurate and precise antenna is twin peak. Twin peak uses two horizontal antennas which is useful in congested areas. Overall, null is an excellent choice to find the general path of the line then switch to peak or twin peak to narrow your locate.

Choosing the right frequency can be confusing and overwhelming. It's important to start low and work higher if you need. Frequency is electromagnetic energy created when an alternating current passes through a metallic conductor. The electrical energy rises and falls a certain number of times per second giving a predictable rate. The rate is known as a frequency. There are a few basic guidelines when choosing your frequency. A low frequency is best for a good circuit (tracer wire) and long distance. A medium frequency is best for a good circuit and doesn't have to travel as far or if there are other sources of electrical interference. Because of the risk of bleed over, high frequencies are reserved for poor circuits and when lower frequencies have failed. After you use these guidelines and find an antenna, you'll be well on your way to locating.

In conclusion, you need to know your situation; if you have tracer wire, pipe material, congestion, etc. You can then pick an antenna best for the situation. If there is no tracer wire and the pipe material is unknown then know how to manipulate antennas and frequencies. After using the locator to find your target line, look at it and see if it makes common sense. Keep an eye on depth throughout but don't depend on it fully because if you're using tracer wire, the depth can vary as far as the diameter of the pipe depending upon installation. Good luck and happy locating. ♠



REGISTER TODAY!

SDARWS 32ND ANNUAL RURAL WATER OPEN



JULY 17, 2018
Elmwood Golf Course
SIoux FALLS, SD

Registration includes: 18 holes of golf, riding cart, luncheon & prizes!

REGISTER ONLINE AT SDARWS.COM

or: tinyurl.com/SDARWSGOLF

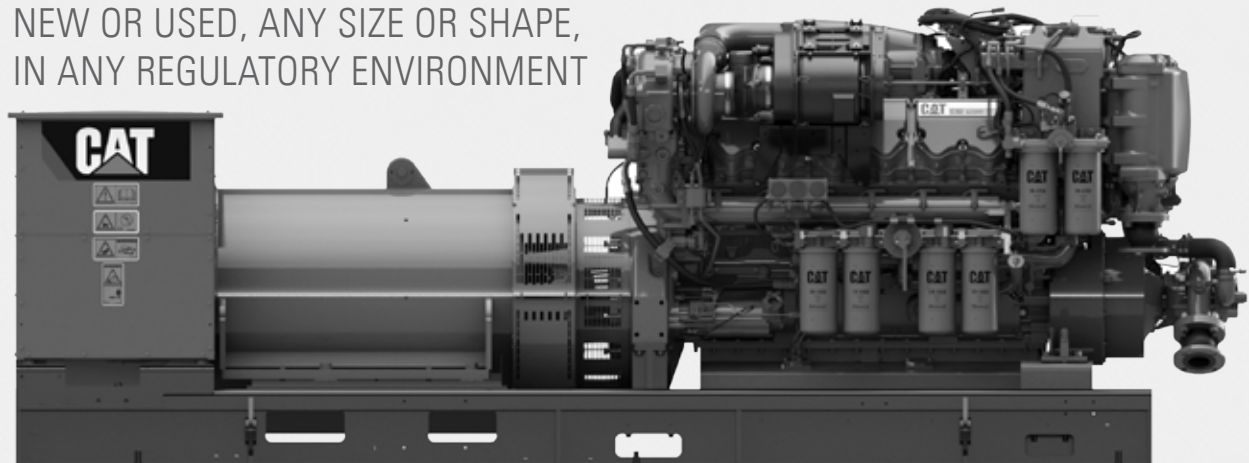
9:00 Shotgun Start (Must register at course by 8:30 am)

TEE BOX SPONSORSHIPS TO BENEFIT RURAL WATER CENTER

Tee Box Sponsorships come in 3 levels - Gold (\$500), Silver (\$250), and Bronze (\$100). All proceeds from Tee Box Sponsorships benefit the Rural Water Center and are TAX DEDUCTIBLE! Sponsorship includes signage at Tee Box, and recognition on electronic signage at registration and during luncheon/awards. This sponsorship can be reserved at the online golf registration page, or by emailing golf@sdarws.com

WHEN YOU
NEED POWER WE
ARE
THERE FOR YOU.

NEW OR USED, ANY SIZE OR SHAPE,
IN ANY REGULATORY ENVIRONMENT



877.365.8114
BUTLERMACHINERY.COM

Butler 

QUICK & EASY FINANCING SOLUTIONS



www.cobank.com/h2oloan

844-846-3135

Proud Member of the Farm Credit System



TEST YOUR KNOWLEDGE

Certification Practice Questions

1 What is the primary origin of coliform bacteria in water supplies?

- a. Natural algae growth
- b. Industrial Solvents
- c. Animal or human feces.
- d. Acid Rain

2 Which of the following chemicals is used to soften water through chemical precipitation?

- a. Calcium Hydroxide
- b. Calcium Bicarbonate
- c. Calcium Chloride
- d. Calcium Sulfate

3 Which of the following chemicals decreases corrosion rates?

- a. H₂S
- b. CO₂
- c. CaCO₃
- d. O₂

4 Which of the following should be used by an operator to test for residual chlorine?

- a. DPD (N, N-diethyl-p-phenylenediamine)
- b. Cresol Red
- c. Methyl Orange
- d. Sulfuric Acid

5 Which one of the following is a major part of a Turbidimeter?

- a. Objective nosepiece
- b. Reference Electrode
- c. Aspirator
- d. Light Source

6 As water temperature increases, the disinfection action of chlorine will

- a. Increase
- b. Decrease
- c. Double
- d. Indeterminate as it also depends on the pH

7 The iron content of raw water is 1.81 mg/L. What is the percent removal if the finished water contains 0.11 mg/L iron?

- a. 17%
- b. 20%
- c. 60%
- d. 94%

8 Alkalinity consists predominantly of which of the following?

- a. Bicarbonate, Carbonate, and Hydroxide
- b. Carbon Dioxide and Bicarbonate
- c. Carbonate and Carbon Dioxide
- d. Carbonate, Carbon Dioxide and Bicarbonate

9 What is the log removal or inactivation required for viruses?

- a. 1.0 log
- b. 2.0 log
- c. 3.0 log
- d. 4.0 log

10 Which of the following will most accurately measure 500 ml of solution?

- a. 500 ml beaker
- b. 500 ml Erlenmeyer flask
- c. 500 ml graduated cylinder
- d. 500 ml volumetric flask

Answer Key

1) C 2) A 3) C 4) A 5) D 6) A 7) D 8) A 9) D 10) D

**PITTSBURG
TANK & TOWER
MAINTENANCE CO., INC.**

SAVE!
We have a crew in
YOUR AREA!

<u>Inspections</u>	<u>Repair</u>	<u>New & Used</u>	<u>Tanks</u>
Wet	In Service Cleaning	Relocation	Elevated
Dry	Paint	Erection	Underground
ROV	Insulation	Dismantles	Ground

ROV inspections can be viewed on TV console
During inspection & DVD provided. All inspections
Include bound reports, recommendations, and cost estimates.

Patrick Heltsley (270) 826-9000 x 4601 270-748-1325	Don Johnston (270) 826-9000 x 1001 (270) 748-1343
--	--

www.watertank.com

MIDCONTINENT

TESTING LABORATORIES, INC.

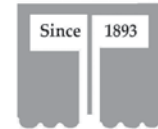
- State-certified for **DRINKING WATER** and **WASTEWATER** testing
- Custom pre-printed sample forms save you time
- Setting the pace for analytical testing & customer service
- Our batch SOC testing can save you \$\$\$ in testing costs
- **FAST SERVICE!** Check your results online by logging on @ www.TheChemistryLab.com



2381 S. Plaza Drive P.O. Box 3388 Rapid City, SD 57709
Phone 605-348-0111 • FAX 605-721-0265

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

**A SUPERIOR WEBSITE FOR YOUR TOWN OR WATER SYSTEM IS NOW EASY
& AFFORDABLE!**

Municipal Impact and Rural Water Impact provide beautiful, mobile-friendly websites for towns and Water Systems – all at a very affordable price. Kick back while we do all the work and setup, then make updates yourself anytime you want. Secure hosting and unlimited support are included, too. You'll never hire an expensive web designer again!



MunicipalImpact.com

Smart Websites for Smart Communities™



RuralWaterImpact.com

Smart Websites for Smart Water Systems™



“We’re the Website People!”

For pricing and information, visit us online at
www.municipalimpact.com or www.ruralwaterimpact.com
Or call us today at 1.800.551.4815.



TIS THE SEASON...



**By Bill Thorson,
SDARWS Wastewater
Technician**

Tis this season!!! No, not Christmas! Although in the last couple weeks it looks like Christmas is returning each week just in time to ruin a good weekend. I am referring to the spring of the year ritual of a wastewater system losing the ice cover and beginning the turnover

process. Many of us are familiar with the septic conditions each spring that accompany ice out and the unmistakable smell of the sewage lagoons in full bloom. The complaints are heard about town at the coffee shop, the local eatery or bar, and of course the calls to city hall.

The solution to pollution is dilution or in this case aeration. Many cities and towns are looking to aeration in one form or another to help with the odors of spring and keeping the non-compliant discharges to a minimum or nulled altogether. The cities that have aeration in place enjoy little to no odors in the spring and little to no problems meeting their permit limits. Some systems are as simple as a couple of roots type blowers and motors, some piping, and a weighted pressure relief valve to control

the amount of air pressure to the cell or influent area. Other systems have VFD control, a totally enclosed blower package to minimize noise and provide a safety factor for operators around larger electric motors and belt drives, and elaborate piping and air diffusers in a dedicated aeration cell.

The other suggestion out there is a Submerged Attached Growth Reactor or SAGR system. In my research on SAGR systems, the design is to polish or clean up the effluent in a continuous discharge wastewater system in cold climates. The ammonia and TSS amounts are almost nothing if the influent is limited in amounts of each. Too much TSS or sludge would be detrimental to a SAGR system and maintenance costs could become unmanageable. There are a few systems in place in nearby states and when designed and maintained properly, the operators are very happy with the results. The control of odors on the initial treatment end of a lagoon don't appear to be in the SAGR's resume. It is a finishing treatment able to withstand cold weather temps, as I understand it.

If your town or city is considering an aeration system to help with the spring fragrance issue or keeping in compliance on other issues, consider all possibilities but keep in mind the objectionable odors generally occur on the front end of the treatment process in a lagoon system. Feel free to contact me if you want more information on working aeration systems in the area. ♠





IT'S TIME TO SAY GOODBYE

DENNIS N. DAVIS, EXECUTIVE DIRECTOR

Retirement planning has been a difficult decision for me. For the past 39 years I have had the privilege to be a part of this South Dakota phenomena called Rural Water. When I was hired on January 16, 1979 I had left a job in Washington, DC where I was the Director of Education and Training and a registered lobbyist for a large association. I thought that would be the greatest job I would have in my career. Little did I know what Rural Water would end up meaning to me! Cities, small towns, and rural residence, farms and ranches across the state are a better place do to the development of regional systems. Rural water development, the people and the service of providing quality water has changed my life.

When I arrived at South Dakota Association of Rural Water Systems, Inc. we had about eight million dollars' worth of regional water systems in the ground and another four million dollars in the funding stage. Today we exceed a billion dollars in regional systems and hundreds of millions of dollars invested in our municipalities. To accomplish this, it took the foresite and direction of the rural water system directors, the belief by state

and federal government to invest financially, and rural water system employees to manage, operate and guide the systems thru construction to serve individuals and bulk customers across the state.

I could spend time reminiscing how I saw this development throughout the years but as I have stated numerous times this isn't about me it is about you! The movers, the shakers, the leaders, and the managers of South Dakota water development. Each of you know the role you have played and how your hard work and persistence have made South Dakota water development what it is today, what it will be tomorrow, and into the future. Each time I reach for a glass of water in the smallest town or largest city, or on a farm or ranch, I will have the pleasure of knowing that as the Executive Director of the South Dakota Association of Rural Water Systems, Inc. I participated in the success of this phenomena called South Dakota Rural Water.

When you see me traveling across the state please say hi and let me know what you are doing to expand this great adventure called Rural Water. ♠



SOUTH DAKOTA RURAL WATER WARRIORS



FISHING
TOURNAMENT

Cedar Shores Marina
OACOMA, SD

APRIL 28TH, 2018

Registration

ENTRANCE FEE IS \$100.00 PER TEAM/BOAT
REGISTRATION DEADLINE IS APRIL 15TH.
VISIT SDARWS.COM TO REGISTER
TOURNAMENT IS LIMITED TO 50 TEAMS

Launch Time

7:00 AM - 3:00 PM

Rules

TEAMS TO CONSIST OF 2-3 PEOPLE WITH AT LEAST ONE PERSON
WHO IS A CURRENT WATER/WASTEWATER, ASSOCIATE OR
CORPORATE MEMBER OF SOUTH DAKOTA RURAL WATER
8 FISH MAXIMUM PER BOAT WITH THE LARGEST 7 FISH WEIGHED

ALL JUDGES RULES ARE FINAL

IN CASE OF A TIE, THE TEAM WITH THE BIGGEST FISH WINS

MANDATORY RULES MEETING 8:00PM FRIDAY NIGHT

SOUTH DAKOTA FISHING REGULATIONS MUST BE FOLLOWED

Prizes

PAYOUT DEPENDENT ON NUMBER OF TEAMS

TOURNAMENT WINNERS ANNOUNCED SHORTLY AFTER
WEIGH-IN RESULTS ARE COMPILED

SOUTH DAKOTA
**Quality
On Tap!**
RURAL WATER





South Dakota Rural Water
203 W. Center Street
P.O. Box 287
Madison, SD 57042

www.sdarws.com



Reimagine your water solutions.

No community too small,
or project too big.
Reimagine what's possible
with KLJ.

KLJENG.COM



ENGINEERING, REIMAGINED