

ServiceLine

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

**SDARWS AWARDED
OUTSTANDING
ACHIEVEMENT IN
TECHNICAL ASSISTANCE**

**2019 WATERPRO
CONFERENCE
HIGHLIGHTS**

**FINDING LEAKS
BEFORE STURGIS**

**IS YOUR SYSTEM
A MEMBER OF
SDWARN?**



Reimagine your
water solutions.

Evolved.

When you are using water, you don't usually think about where it comes from. That's how it should be. Smart management of a precious resource. It's second nature at KLJ.

KLJENG.COM



ENGINEERING, REIMAGINED



IN THIS ISSUE



- 5** From the SDARWS President
- 7** Operator Certification Training Classes and Exam Dates
- 9** SDARWS Staff Directory
- 11** SDARWS Membership Corner
- 13** Is Your System a Member of SDWARN?
- 14** 2020 ATC Information
- 19** SDARWS Awarded at the 2019 NRWA WaterPro Conference
- 23** 2019 Leadership Agenda
- 26** ATC Award Nominations
- 29** Certification Questions
- 31** Fixing Leaks Before Sturgis
- 33** Photos From the Field
- 34** From the Executive Director



SDARWS CORPORATE PARTNERS

Marsh & McLennan Agency, 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

Cover Photo: Sunflowers in northeast South Dakota. Photo taken by SDARWS Wastewater Tech Bill Thorson

ServiceLine is published bi-monthly by the South Dakota Association of Rural Water Systems. The contents of this publication may not be reproduced by any means, in whole or in part, without the prior written consent of SDARWS. SDARWS reserves the right to reject or edit any manuscripts received for publication. All submissions become the property of the South Dakota Association of Rural Water Systems unless otherwise specifically stated in this publication. Statements of fact and opinion are the responsibility of the authors alone and do not imply an opinion on the part of the South Dakota Association of Rural Water Systems. Advertisements and editorials do not represent official policies of the Association. Acceptance of advertising by SDARWS does not constitute endorsement of the advertiser, its products or services, nor does SDARWS make any claims or guarantees as to the accuracy or validity of advertisers' claims.

To submit editorial or advertising content, or to update your mailing information, please contact Jennifer Bame at 605-556-7219 or email jbame@sdarws.com.

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 • www.sdarws.com
Copyright 2019



HRGreen®

Building Communities.
Improving Lives.

Providing water and wastewater services for more than a century.

▷ 431 N. Phillips Ave, Suite 400
Sioux Falls, South Dakota 57104-5933
Phone 605.334.4499

▷ HRGREEN.COM

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

MILBANK
Winwater™
COMPANY

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

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

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



FROM THE SDARWS PRESIDENT

RON GILLEN, SDARWS PRESIDENT

LEADERSHIP SEMINAR

Association staff are busy getting ready for our Annual Leadership Seminar which will be held at the Best Western Ramkota Hotel in Pierre November 13-14th. This seminar is geared towards Rural Water System Directors and Board Members and includes informational sessions on water rates, asset management, sustainability, financing, and director and manager panels. The cost to attend Leadership is \$160, and includes a meal at the President's Reception on the evening of November 14th. Members of WaterPro will receive a \$15 discount. Registration for this event will be available online at <https://tinyurl.com/SDLeadership>, or by calling the SDARWS office at 605-556-7219. See page 23 for this year's agenda.

ATC AWARD SUBMISSIONS

There are only a few more short months before the snow flies, so that means it's time to get in your award nominations for the ATC! Check out the categories on page 24, and get your submissions in before the October 31st deadline. If you have questions on awards, please give the SDARWS Madison office a call at 605-556-7219.

2020 RURAL WATER RALLY

South Dakota Rural Water does many things, and one of the most important benefit to our rural water membership relates to our legislative efforts. Every year the National Rural Water Association hosts a Rural Water Rally in Washington D.C. to further the work of providing drinking water and wastewater services to rural communities. Rural Water professionals, leaders and customers from every state attend the rally to thank their Senators and Representatives for their support and encourage them to further support the goals and needs of the Rural Water Industry. The Rally provides your Association the opportunity to meet directly with our congressional delegation

one-on-one to discuss concerns of SDARWS members and other systems, as well as with their staffers, and USDA.

We invite you to join us February 3-5, 2020 at the Hyatt Regency on Capitol Hill. For more information, visit NRWA's Rally page at: nrwa.org/rally. Room reservations can be made at the Hyatt Regency by calling 202-737-1234. If you have any questions about attending this year's event, please call the SDARWS office at 605-556-7219. We would love to have you join us on the Hill!

February
3-5, 2020
Washington, DC

Let Your Voice Be Heard!

The Rural Water Rally provides an opportunity for supporters of our industry to make their case directly to their elected officials. Rural Water Associations in each state schedule meetings with Representatives, Senators and their staff, so that they can share the Rural Water success story, answer questions and build important relationships. Attending the Rural Water Rally also provides a unique opportunity to meet with association leaders and watch the Great American Taste Test in person.

For more information, visit:
nrwa.org/rally

Hyatt Regency Capitol Hill
800-332-8715



RALLY



Bridging the gap
between idea +
achievement



Sioux Falls 605.977.7740
Rapid City 605.791.6100

hdrinc.com



METER & AUTOMATION



 **NEPTUNE**
TECHNOLOGY GROUP

FERGUSON[®]
WATERWORKS

Fargo

1917 1st Ave. N
(701) 293-5511

Bismarck

1201 Airport Rd.
(701) 258-9700

Blaine

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



OPERATOR CERTIFICATION TRAINING AND EXAMS

CONTACT HOUR REQUIREMENTS

| | |
|--|------------------------------------|
| Number and Type of Certificates | Contact Hours Required |
| Operator has one certificate (Class I or II)..... | 10 contact hours every three years |
| Operator has one certificate (Class III or IV) | 20 contact hours every three years |
| Operator has more than one certificate and all are Class I and II..... | 15 contact hours every three years |
| Operator has more than one certificate and at least one certificate is a Class III or IV | 30 contact hours every three years |

| | | |
|---------------------------------------|--------------------|-------------------------------------|
| Stabilization Pond Workshop* | October 1 | Aberdeen-Ramkota |
| OpCert Exam | October 1-12:30 pm | Pierre-Matthew Center |
| Stabilization Pond Workshop* | October 3 | Mitchell-Highland Conference Center |
| Basic Water Treatment | October 22-24 | Rapid City-Ramkota |
| OpCert Exam | October 24-1:00 pm | Rapid City-Ramkota |
| Water Distribution | November 5-7 | Brookings-Days Inn |
| OpCert Exam | November 7-1:00 pm | Brookings-Days Inn |
| Wastewater Collection | December 3-5 | Sioux Falls-Ramkota Inn |
| OpCert Exam | December 5-1:00 pm | Sioux Falls-Ramkota Inn |
| Basic Wastewater Treatment | January 28-30 | Spearfish-Holiday Inn |
| Water Distribution | February 25-27 | Rapid City-Ramkota |
| Wastewater Collection | March 10-12 | Spearfish-Holiday Inn |
| Basic Wastewater Treatment | March 24-26 | Huron-Crossroads/Events Center |
| Basic Water Treatment | April 7-9 | Sioux Falls-Ramkota Inn |
| Small Water Treatment System Workshop | April 28 | Rapid City-Ramkota |
| Small Water Treatment System Workshop | April 30 | Aberdeen-Ramkota |
| Stabilization Pond Workshop* | May 6 | Huron-Crossroads/Events Center |
| Advanced Wastewater Treatment | May 19-21 | Brookings-Days Inn |
| Intermediate Water Treatment | June 2-4 | Sioux Falls-Ramkota Inn |

*The Stabilization Pond class deals strictly w/ ponds and is the best class for preparing to take the Small Wastewater System exam. The Basic Wastewater Treatment class deals w/ all types of wastewater treatment other than ponds and is the best class for preparing to take the Class I Wastewater Treatment exam. Small systems that use ponds for treatment can come into compliance w/ the OpCert Law by passing either the Class I Wastewater exam or the Small Wastewater System exam.

**Water systems serving less than 500 people that use wells can come into compliance by passing the Small Water Treatment exam. Larger systems must pass the Class I Water Treatment exam.

For Study materials, visit: www.abccert.org/testing_services/ExamReferences.asp

For more information contact SDARWS Trainer Jim Zeck: 605-201-9568 or jzeck@sdarws.com

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

engineering
a better
community

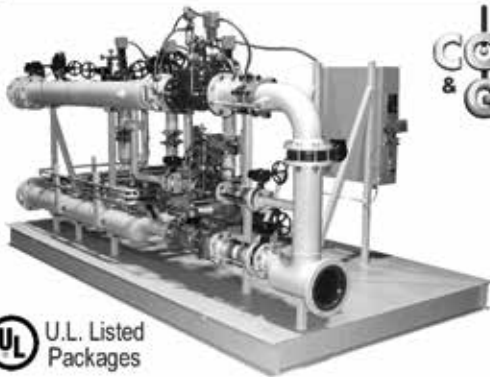
water | wastewater

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
& **GO** 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 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



GREG GROSS

East River Circuit Rider

ggross@sdarws.com
605-201-6026



JEREMIAH CORBIN

*Source Water Protection
Specialist*

jcorbin@sdarws.com
605-270-3894



JEFF FOSSUM

East River Circuit Rider

jfossom@sdarws.com
605-201-9561



ROBYN BROTHERS

Office Manager

rbrothers@sdarws.com
605-556-7219



BILL THORSON

*East River Wastewater
Technician*

bthorson@sdarws.com
605-201-0170



JENNIFER BAME

*Communications &
Marketing Coordinator*

jbame@sdarws.com
605-556-7219



ABBEY LARSON

*West River Wastewater
Technician*

alarson@sdarws.com
605-645-6488

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

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**

SDARWS MEMBERSHIP CORNER

City of Montrose
P.O. Box 97
100 W. Main St., Suite A
Montrose, SD 57048

Phone: 605-363-5065 Fax: 605-363-3982 E-mail montrose@goldenwest.net
www.cityofmontrosesd.com

April 22, 2019

South Dakota Association of Rural Water Systems
203 W Center Street
PO Box 287
Madison, SD 57042

To Whom It May Concern,

We wish to convey our sincerest gratitude for the expertise, guidance, and equipment the South Dakota Association of Rural Water Systems provided in October and November of 2018 to the City of Montrose.

For at least two years, the city was experiencing ever increasing water usage. Our revenues were no longer covering our expenses and the water fund ended the 2018 year with a negative balance of almost twenty thousand dollars.

Two operators from SDARWS did a thorough grid search of the entire city and ultimately identified two areas where there appeared to be a water leak, both past the curb stops but before the meter. Once we shut off those curb stops, we immediately saw water usage drop considerably. Prior to identifying the water leak, we were paying our water supplier between \$6,000 and \$7,500 every month for water. We are now paying between \$2,500 and \$3,100 each month.

Without the expertise and equipment provided by SDARWS, we would not have been able to identify these leaks, resulting in massive water rate increases for our residents. The services provided by SDARWS were critical to our financial stability and we will not hesitate to reach out in the future. Thank you so much!

Sincerely,



Sara Smith
Finance Officer
City of Montrose



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.



LIKE US ON FACEBOOK
@SDRuralWater
to see event pictures
and updates on SDARWS

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



WATERWORKS



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.

DSG
DAKOTA SUPPLY GROUP
For all the right connections!

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



Products & Services Portfolio

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](tel:800.545.1054) for more information or go to nrwa.org email: info@nrwa.org



NATIONAL RURAL WATER ASSOCIATION

America's Largest Utility Membership

Availability may be limited in some states.



IS YOUR SYSTEM A MEMBER OF SDWARN?

WHAT IS WARN?

WARN is a statewide Water/Wastewater Agency Response Network (WARN) of “utilities helping utilities” to prepare for the next natural or human-caused emergency. SDWARN was organized in 2008 when the first five members joined. The City of Fort Pierre was the first to sign the agreement, along with the TM Rural Water System, Minnehaha Community Water Corporation, the City of Winner, and the Clay Rural Water System. As of 2019, there are 125 members. SDWARN has approximately 77% of the population covered in the state with nearly every Class 1 municipality as a member. Membership also includes a tribal member and a Fortune 500 member, making it unique among the rest of the state WARNs.

WHY DO WE NEED SDWARN?

Water and wastewater systems provide our communities with a life-sustaining resource that is of vital importance to maintaining public health, sanitation, and safety. When water and wastewater services are interrupted for extended periods of time, a community’s well-being quickly deteriorates, as evidenced by Hurricane Katrina. And without an adequate water supply, our communities are vulnerable to devastating fires. By restoring water and wastewater service in the most efficient manner possible, SDWARN provides renewed hope for fast recovery from such disasters.

This spring, SDWARN set up a command post to help with the spring flooding, but the flooding was more long term and less catastrophic than anticipated. However, several SDWARN pumps were deployed to multiple locations, and there are places where pumps are operating, along with active requests for more pumps. We had pumps dispatched to at least seven different

locations this spring and summer. The City of Flandreau has been utilizing several pumps for a couple of months and has made great use of the SDWARN equipment to help them with sewer problems.

Many of the pumps were a donation from the City of Fort Pierre after the 2011 Missouri River Flood. Fort Pierre had purchased a lot of pumps and had no use for them after the flood. SDWARN solicited the pumps, and the city donated them for all members to use. The South Dakota Association of Rural Water Systems (SDARWS) has been host to the WARN pumps and equipment since 2015 when

the pumps were donated. Pumps are housed in Madison and at the City of Spearfish who stepped up and provided a housing location west river. SDWARN is currently searching for a home for some pumps and equipment in the center of the state, and the City of Chamberlain has offered up some space for the future. The SDWARN board members are looking at the best arrangement of pumps to ensure that the shortest time is needed to access the greatest amount of pumping capability possible.

Last year, The City of Madison created the Challenge Grant program for SDWARN and put out a system challenge to match their \$500 grant to SDWARN. From that challenge, \$13,151 was donated to SDWARN, and it was an overwhelming success. The one-dollar came from the City of Harrisburg who decided to “one-up” the challengers with a \$501 donation. Many rural water systems jumped in and donated the lion’s share with four systems donating \$1,000 each. 2019 has seen the rural water systems taking the lead again with a CoBank matching grant donation of \$10,000. The City of Madison is again issuing a challenge to any system that wants to match the \$500. These donations will provide the equipment that has been in use this year and some new forms of equipment that are not presently available.





SOUTH DAKOTA RURAL WATER'S ANNUAL TECHNICAL CONFERENCE

JANUARY 14-16, 2020

Pierre Ramkota Hotel & Convention Center

REGISTER

Register by December 13, 2019 and save \$25 off your registration or \$50 off your booth. You can register through a link on our website at www.sdarws.com/annual-conference

WATERPRO DISCOUNT

Become a WaterPro member and save an extra \$30 on your 2020 ATC registration. In addition to \$30 off at the ATC, you will also receive \$10 off 2020 West River EXPO registration, as well as discounts on several NRWA events. Visit waterprocommunity.org to register for a WaterPro membership.

CLIENT MEETING ROOMS

We have a limited number of rooms available for client meetings. Call 605-556-7219 to reserve.

HOTEL INFORMATION

DAYS INN – 605-224-0411
GOVERNOR'S INN – 605-224-4200
HOLIDAY INN EXPRESS – 605-223-9045
BAYMONT INN & SUITES – 605-224-4140



**PREMIER
ATC SPONSOR**



**EDUCATIONAL
SESSIONS SPONSOR**
Bartlett & West

www.sdarws.com/annual-conference.html

PRELIMINARY SCHEDULE

REGISTRATION HOURS

Tuesday 8:00 AM - 4:30 PM

Wednesday 8:00 AM - 4:30 PM

OPENING SESSION & KEYNOTE

Sponsored by AE2S

Tuesday 1:00 PM - 2:30 PM

KEYNOTE BREAKOUT

Sponsored by AE2S

Tuesday 3:00 PM - 4:30 PM

45th ANNUAL MEETING

Wednesday 8:00 AM - 10:00 AM

RURAL WATER CENTER

ANNUAL MEETING

Wednesday 10:00 AM - 11:00 AM

LEGISLATIVE PANEL

Wednesday 1:00 PM - 2:30 PM

HALLWAY EXHIBITS

Tuesday 10:00 AM - 5:00 PM

Wednesday 8:00 AM - 8:00 PM

EXHIBIT HALL & LEGISLATIVE RECEPTION

Wednesday 4:00 PM - 8:00 PM

LEGISLATIVE OPEN FORUM

Thursday 8:00 AM - 9:00 AM

AWARDS BRUNCH

Thursday 9:30 AM - 11:00 AM

SPONSORSHIPS AVAILABLE

EDUCATIONAL SESSIONS SPONSOR – \$2,500

Benefits include recognition in conference displays and banners, logo displayed in session rooms, recognition in program booklet. Sponsorship price includes a booth space in the Exhibit Hall Wednesday night, as well as Full Conference Registration for two individuals.

BREAK TABLE SPONSORSHIP – \$1,200

Sponsorship includes electronic signage at the break table, the opportunity to place promo materials on the break table, and recognition in the program booklet and agenda displays.

NEW! CHARGING STATION SPONSORSHIP – \$1,000

Sponsor the electronics charging station. Charging station will be up for the entire duration of the conference (3 days), and includes advertising space for a printed 22" x 28" ad on two sides of the station. You can either send us an ad, or we will print your logo in the space allotted.

CONFERENCE LANYARD SPONSOR – \$500-\$1,500

Place your company's logo around every conference attendee with their name badge. Note: If you wish to supply your own lanyards, the sponsorship is only \$500.

CONFERENCE BAG SPONSOR – \$600

Your branded bag will be handed out to every conference attendee with their name badge and agenda booklet at registration. Price includes bag.

KEG SPONSORSHIP – \$500

Want extra exposure in the Exhibit Hall? Sponsor a keg! Keg can be placed in your booth if desired. Includes signage.

T-SHIRT SPONSORSHIP – \$150

For only \$150, your company's logo will be printed on the back of this year's ATC t-shirt which will be handed out free to every conference attendee. Artwork deadline is December 2nd.

PUT YOUR SWAG IN OUR BAG – \$100

Have your postcard (or company brochure, flyer, pen, notepad, flash drive, etc) inserted into each conference attendee's bag. Price is for 400 items which must be delivered to our Madison office by December 13th.

PROGRAM BOOKLET ADS

Put your ad in our program booklet to be handed out to each attendee. Ad deadline is December 2nd.

\$300 – Full Page Color \$175 – Full Page B&W

\$125 – 1/4 Page Color \$75 – 1/4 Page B&W

Sponsorships can be reserved online with ATC booth registration, by calling Jennifer at 605-556-7219 or via email at atc@sdarws.com. Sponsorships subject to availability.

ATTENDEE INFORMATION

MEMBER FULL REGISTRATION

\$250 (Standard)

\$220 (WaterPro Discount Standard)

\$225 (Early Bird - by 12.13.19)

\$195 (WaterPro Discount + Early Bird)

MEMBER FULL + SPOUSE

\$295 (Standard)

\$265 (WaterPro Discount Standard)

\$270 (Early Bird - by 12.13.19)

\$240 (WaterPro Discount + Early Bird)

MEMBER TUESDAY ONLY

\$155 (Standard)

\$125 (WaterPro Discount Standard)

\$130 (Early Bird - by 12.13.19)

\$100 (WaterPro Discount + Early Bird)

MEMBER WEDNESDAY ONLY

\$205 (Standard)

\$175 (WaterPro Discount Standard)

\$180 (Early Bird - by 12.13.19)

\$150 (WaterPro Discount + Early Bird)

MEMBER BRUNCH ONLY

\$30 (Standard)

WANT TO SAVE \$30 ON YOUR ATC REGISTRATION? BECOME A MEMBER OF THE WATERPRO ONLINE COMMUNITY!

THE WATERPRO ONLINE COMMUNITY offers significant networking and professional advancement opportunities for NRWA members. The WaterPro OLC will allow you to network with utility personnel, access training on new technology and regulations, discuss utility-specific topics with your peers, and even manage your membership online.

Subscription to the Rural Water magazine – NRWA's award-winning quarterly publication has articles, legislative updates, commentaries and other timely information on local, state, national and world events. Individual membership is only \$49!

IN ADDITION TO \$30 OFF AT THE ATC, GET \$10 OFF AT THE 2020 WEST RIVER EXPO, AND \$10 OFF LEADERSHIP TRAINING!

As a member of WaterPro, you also become an individual member of the National Rural Water Association (NRWA)

As a NRWA Individual Member, you will receive the following benefits designed to strengthen your network with utilities and professionals in the water and wastewater industry:

- Discounts on merchandise at the Rural Water Store, WaterPro Conference and online
- Access to the latest information on technology, regulation and funding through Water University webinars
- NRWA Membership lapel pin, certificate and wallet card
- Support funding for water and wastewater utilities – NRWA is a leading advocate for infrastructure funding, resulting in billions of dollars of funding
- Timely information on the impact your support is having throughout the water industry
- Verizon Wireless – Access to top tier discounts
- LifeLock Identity Theft Protection – Receive 30 Days Free + 10% off for the lifetime of your membership.

To learn more, please visit www.waterprocommunity.org/r/us/

EXHIBITOR INFORMATION

EXHIBIT HALL – \$425

- Exhibit in our Exhibit Hall/Legislative Reception on Wednesday evening from 4-8pm
- Booth registration includes full conference registration for two individuals

Setup: Wednesday, January 15th – 9:30am - 1:30pm

Exhibit: Wednesday, January 15th – 4:00pm - 8:00pm

Tear Down: Wednesday, January 15th – 8:15pm - 9:00pm

FULL CONFERENCE HALLWAY – \$525

- Exhibit for the entire duration of the ATC (Tuesday, January 14th, and Wednesday, January 14th)

- Booth registration includes full conference registration for two individuals
- Booth will be assigned in the hallway area of the Ramkota Convention Center.

Setup: Tuesday, January 14th – 8:00am - 10:00am

Exhibit: Tuesday, January 14th – 10:00am - 5:00pm;
Wednesday, January 15th – 7:30am - 8:00pm

Tear Down: Wednesday, January 15th – 8:15pm - 9:00pm

Additional exhibit personnel will need to register as an attendee. All booth spaces are 8-foot wide and contain electricity, a table, and two chairs. You must be a current member of South Dakota Rural Water to reserve a booth. All registrations will be reviewed.

Chuck Gallagher 2020 ATC KEYNOTE SPEAKER



Unethical behavior left unchecked can chip away at the cornerstones of ethics, integrity, honesty and accountability. Every choice has a consequence.

In 1987, Chuck Gallagher made some bad choices at the height of his career and went from wearing a business suit to an orange jump suit some years later. So... you might be asking yourself, Why would I want a former convicted felon to speak to my organization about ethics and integrity? Why? Because Chuck has experienced first hand how easy it is to move from ethical to unethical. Having rebuilt his life back to immense success — the lessons he learned allow him to share a unique perspective unlike any other business ethics keynote speaker.

SEE CHUCK LIVE!

TUESDAY, JAN. 14TH

AMPHITHEATER II

KEYNOTE: 1:00 PM

BREAKOUT: 3:00 PM

Rather than taking the usual theoretical approach to ethics — which, frankly, can put people to sleep — Chuck captures attention by talking about his own journey from a human perspective, then combining it with a practical application. His course is sometimes humorous, often thought-provoking and always impactful — but never “textbook.” The series will to reduce the likelihood of fraud and other related behaviors through awareness and accountability.



SPOUSE PROGRAM

This year's craft is custom stamped coasters. Participants will be able to create their own set of four coasters using a variety of stamps.

SPOUSE PROGRAM SCHEDULE

Wednesday, January 15

| | |
|--------------------------|----------|
| Continental Breakfast | 9:00 AM |
| Craft time with Jennifer | 10:00 AM |
| Soup/Sandwich Luncheon | 11:00 AM |

DOES YOUR
SYSTEM HAVE
THE BEST
DRINKING WATER
IN SOUTH
DAKOTA

*Bring a glass quart jar of your water to the
45th Annual Technical Conference in Pierre*

All entries must be submitted to the registration desk by 2:00 pm on January 14th in order to be entered into the contest. Entries must be submitted in a glass jar. A representative from each system submitting an entry must be in attendance; no person can represent more than one entry.

The winner's name will be announced at the ATC Awards Banquet on Thursday, January 16, 2020. The winner will go on to represent South Dakota at the NRWA Great American Water Taste Test in Washington, DC on February 4th, 2020.

WATER TOWER EXPERTS



(605) 334-9749 | MAGUIREIRON.COM |    

EXTEND THE LIFE OF YOUR WATER TANK

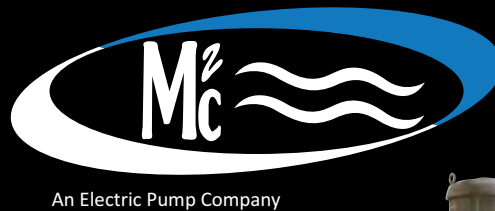
TANK MAINTENANCE & NEW TANKS

- Full-Service and Custom Tank Maintenance Plans
- Interior/Exterior Tank Painting
- Interior/Exterior Sandblasting and Containment
- Interior/Exterior Tank Inspections
- Lead Abatement
- Interior Tank Cleaning and Disinfection
- Custom Tank Logos
- Chemical Cleaning
- Tank Mixing Systems
- 24-Hour Emergency Services



CHAD EDWARDS

North Dakota Water Tower Expert
(605) 759-4957 | edwardsc@maguireiron.com



800-211-6432
www.electricpump.com

115 Lipton Street
Suite B
Tea, SD 57064

402-333-9660
www.mc2h2o.com



SDARWS Awarded at the 2019 NRWA WaterPro Conference

The South Dakota Association of Rural Water Systems (SDARWS) received the 2019 National Rural Water Association's Outstanding Achievement in Technical Assistance Award during the annual Tribute to Excellence awards ceremony, held on September 10th at the WaterPro Conference in Nashville, Tennessee. SDARWS was selected from rural water associations nationwide for this annual award.

The 2019 WaterPro Conference held September 9-11 kicked off with U.S. EPA Administrator Andrew Wheeler delivering the keynote presentation to kick off Opening Session to a record number of 2,100 attendees – including over 100 South Dakotans.

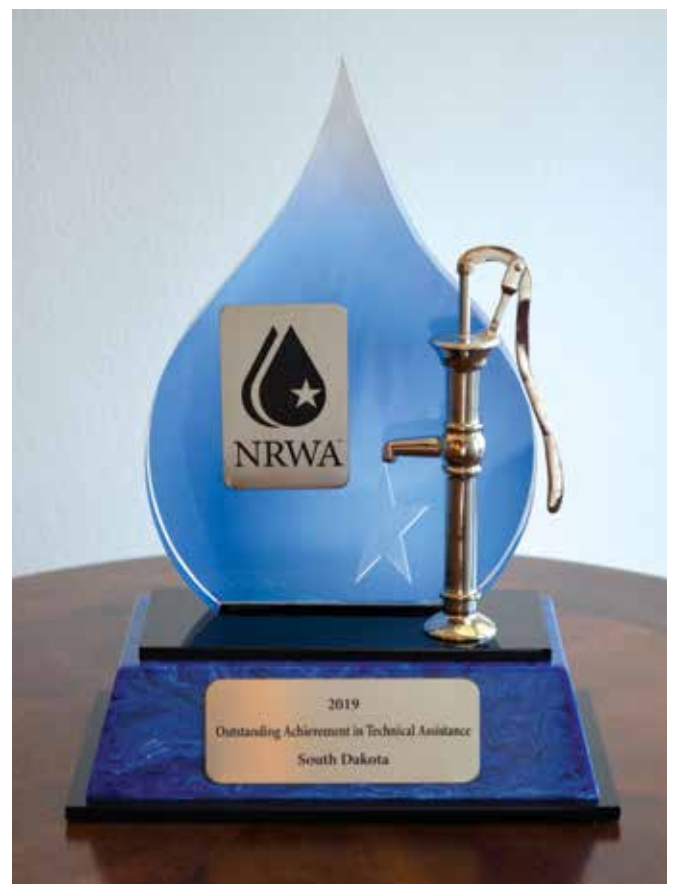
Administrator Wheeler addressed NRWA members about the agency's goals both domestically and internationally to elevate the importance of water issues and commended Rural Water on the differences they are making in the water and wastewater industry.

“On infrastructure we estimate that more than 700 billion dollars are needed to modernize the United States water infrastructure over the next 20 years,” Wheeler stated.

When the EPA was founded almost 50 years ago, 40 percent of our water systems failed to meet EPA's standards every single day. Wheeler proudly went on to inform the audience that of the 50,000 community water systems across the country, 91 percent of these systems serve communities of less than 10,000.

He continued with updates on the EPA programs that water and wastewater systems can utilize to improve their infrastructure and

...continued on page 20





WATERPRO: continued from page 19...

water technologies as well as the three key areas EPA is focused on assisting with are regulatory certainty, workforce development and financial assistance.

“Regulations need to keep pace with science and realities on the ground,” Wheeler stressed. “PFAS is a major concern right now, and EPA is working to develop new technologies and treatment options to remove PFAS from drinking water and to remediate soil.” Along with this research and development, they are looking into the ricks of PFAS in bio-solids, monitoring options and developing a PFAS risk communication tool box that includes materials that states, tribes and local partners can use to effectively communicate with the public.

“In the United States we have come to rely on safe drinking water at the turn of a tap. It can be easy to take this blessing for granted. But the strength of local economies and public health depend on the dedicated support of drinking water, wastewater and storm water systems. More specifically the depend on the people who operate them, the water workforce,” Wheeler commented.

One third of water operators will be eligible to retire in the next ten years. The water workforce protects the investments in our water infrastructure. A major challenge right now is developing and retaining new water and wastewater operators, and right now technology is outpacing the training. EPA is working with their federal counterparts to support water workforce training and development.

“We appreciate your work on this effort, especially the National Rural Water Association’s Apprenticeship Program,” Wheeler said.

In closing, Wheeler announced a new grant program to be offered, the Water Infrastructure Improvements for the Nation Act (WIIN Act) authorizes a new EPA grant program specifically designed to help disadvantaged communities to improve their drinking water. The first round for applications for this grant will be opened later this month.

“Every day you and your colleagues provide clean and safe water to millions of Americans. There are few callings as noble and as significant as that,” Wheeler said, “you deserve greater recognition and least of all you deserve our thanks.”

Other highlights of the Opening Session included NRWA President Kent Watson reviewed NRWA’s accomplishments this past year, including a plan to purchase a fully equipped emergency response trailer and one-ton truck for NRWA to assist in emergency response efforts across the country. Watson highlighted the continuing success of the NRWA Affinity Partners and the growing NRWA Apprenticeship Program.

NRWA CEO Sam Wade praised the attendees, because the everyday efforts of utility professionals are what makes Rural Water successful.

Nicholas Hines, the first apprentice to complete the NRWA Apprenticeship Program, was also recognized during the Opening Session. The Apprenticeship Program is focused on helping emerging leaders become the next generation of professionals to improve the water and wastewater industry.

“This program is turning jobs into careers for apprentices across the country,” Hines said.

This year NRWA hosted a WaterPro Family Feud game show during the exhibit hall. The SDARWS team consisting of Kurt Pfeifle, Nick Jackson, Jeff Fossum, Bill Thorson, and Steve Attema was chosen to participate. Their efforts didn't bring them to the finals, but they did bring home a \$500 credit from USA Blue Book to use on equipment purchases.

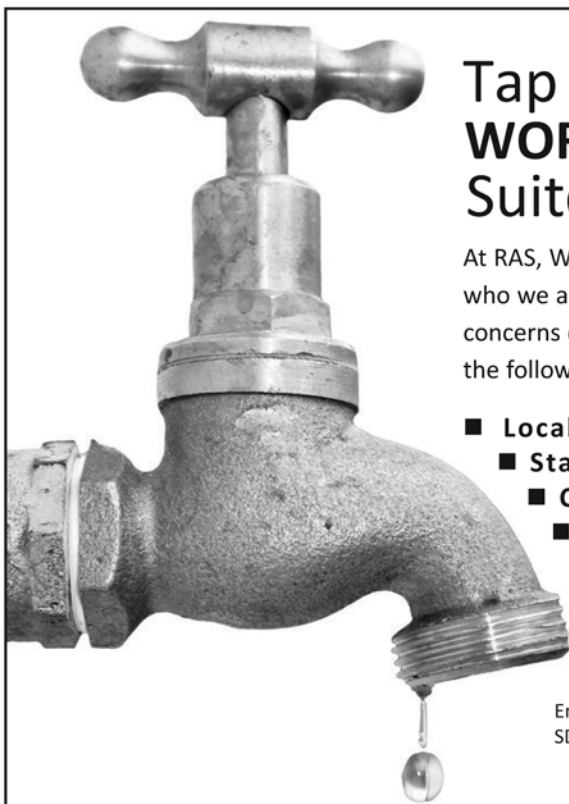
Between one of the highest attendance in conference history and the participation of high government officials from EPA and USDA, this WaterPro Conference was considered a huge success and plans have started for next year’s WaterPro Conference in Phoenix, Arizona. ♦





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.



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.



RISK ADMINISTRATION SERVICES, INC.

WORKERS' COMPENSATION.
Our Focus. Your Opportunity.SM

www.rascompanies.com
1.800.732.1486



SOUTH DAKOTA RURAL WATER
**LEADERSHIP
 SEMINAR**

**HOTEL ROOM BLOCK
 AVAILABLE AT:**

**BEST WESTERN RAMKOTA
 HOTEL**

PIERRE SOUTH DAKOTA
 920 WEST SIOUX STREET
 PIERRE, SOUTH DAKOTA 57501
 605.224.6877

NEARBY HOTELS

CLUBHOUSE – 605.494.2582
 DAYS INN – 605.224.0411
 GOVERNOR'S INN – 605.224.4200

Association staff are busy getting ready for our Annual Leadership Seminar which will be held at the Best Western Ramkota Hotel in Pierre November 13-14th. This seminar is geared towards Rural Water System Directors and Board Members and includes informational sessions on water system depreciation, strategic planning, water rights, workplace issues, utility websites, and more. The keynote speaker for the

President's reception this year is Hunter Roberts, department secretary for the South Dakota Department of Environment and Natural Resources. The cost to attend Leadership is \$160, and includes a meal at the President's Reception on the evening of November 14th. There will be a \$15 discount for WaterPro members. Registration for this event will be available on our website at sdarws.com. The tentative agenda is below:

Wednesday – November 13

- 1:00 WELCOME** – *Ron Gillen, President, SDARWS*
PLEDGE OF ALLEGIANCE
AGENDA REVIEW
- 1:15 WATER SYSTEM DEPRECIATION:
 A CAPITAL PLANNING TOOL FOR THE
 WELL-MANAGED UTILITY**
Miranda Kleven – Financial Analysis, AE2S
- 2:00 MANAGER PANEL – STRATEGIC PLANNING,
 SERVING SMALL COMMUNITIES
 INDIVIDUALLY, RATE STRATEGIES, &
 SDWARN**
*Russ Phillips, Heath Thompson, Rod Kappes,
 and Brad Lawrence*
- 3:00 BREAK**
- 3:15 SD WATER RIGHTS 101**
*Jeanne Goodman – Chief Engineer, Water
 Rights Program*
- 4:00 BREAK**
- 4:15 WORKPLACE ISSUES: 2020 TO 2030**
Julie Nelson – HR Consultant, Alternative HRD

5:30 PRESIDENT'S RECEPTION

- 6:00 DINNER & GUEST SPEAKER**
*Hunter Roberts – Department Secretary,
 SDDENR*

Thursday – November 14

- 8:00 NRCS: FOCUS ON WATER QUALITY**
Jeff Zimprich – State Conservationist, NRCS
- 8:45 BREAK**
- 9:00 NRWA DEMYSTIFIED: WHAT DOES NRWA
 DO FOR THE INDIVIDUAL WATER SYSTEM?**
Matt Holmes – Deputy CEO, NRWA (via Skype)
- 9:45 BREAK**
- 10:00 SOCIAL MEDIA & WEBSITES FOR UTILITIES**
Dennis Ryckman – Factor 360
- 10:45 EPA CRIMINAL INVESTIGATION DIVISION**
Tamara Solari – Special Agent, EPA
- 11:30 NRWA RALLY DISCUSSION & CLOSING
 COMMENTS** – *Ron Gillen & Kurt Pfeifle*

**This agenda is subject to change*

South Dakota Rural Water AWARD NOMINATIONS

Do you know someone who is doing a great job? Goes above and beyond the call of duty? Has your water system achieved excellence this year – or has overcome some amazing challenges?

Give recognition where it is due by completing our Awards Nomination Form. Awards will be presented at the Awards Brunch at the ATC – January 16, 2020. **Application deadline is October 31, 2019.** Eligible nominees must be affiliated with a system member in good standing. The online form can be found at www.surveymonkey.com/r/ATCAwards.

WE ARE ACCEPTING NOMINATIONS FOR THE FOLLOWING CATEGORIES:

RURAL WATER SYSTEM OF THE YEAR: a member system who puts forth exceptional efforts to properly manage, operate, and maintain their drinking water system.

RURAL WATER MANAGER OF THE YEAR: Recognition for a manager of a Rural Water System for outstanding performance in operating a Rural Water System.

RURAL WATER OFFICE PERSON OF THE YEAR: Recognition for an administrative employee of a Rural Water System for outstanding performance in office management and procedures.

RURAL WATER SYSTEM OPERATIONS SUPERVISOR OF THE YEAR: Recognition for a State of South Dakota Certified Operator who is actively working a supervisory role for a Rural Water System, and has demonstrated outstanding leadership ability and/or accomplishments in drinking water.

RURAL WATER SYSTEM OPERATIONS SPECIALIST OF THE YEAR: Recognition for a State of South Dakota Certified Operator who is actively working for a Rural Water System with outstanding leadership ability and/or accomplishments in drinking water.

MUNICIPAL WATER/WASTEWATER SYSTEM OF THE YEAR: a municipality who puts forth exceptional efforts to properly manage, operate, and maintain their drinking water and wastewater system.

MUNICIPAL MANAGER OF THE YEAR: Recognition for a municipal manager for outstanding performance in managing a municipality.

MUNICIPAL OFFICE PERSON OF THE YEAR: Recognition for an administrative employee of a municipality (i.e. clerk, finance officer, etc.) for outstanding performance in office management and procedures.

MUNICIPAL OPERATIONS SPECIALIST OF THE YEAR: Recognition for a State of South Dakota Certified Operator who is actively working for a municipality with outstanding leadership ability/accomplishments in water.

CARROLL ANDERSON MEMORIAL: The Carroll Anderson Memorial Award is a tribute to the exemplary work of Carroll Anderson who gave generously of his time, talents, and efforts to the Kingbrook Rural Water System and the South Dakota Association of Rural Water Systems. This award recognizes an individual's outstanding voluntary contributions to the advancement of rural community water systems in South Dakota, and is the greatest tribute the Association can bestow recognizing an individual's contributions to both the member system and to SDARWS.

FRIEND OF RURAL WATER: This distinguished honor is awarded to agencies, organizations, or individuals who have lent a hand in supporting this fantastic phenomenon we call Rural Water. The ability to provide life's essential need, water, to all the citizens of South Dakota was not done by one person or organization; it is a collective effort encompassing many.

SPIRIT OF RURAL WATER: This award is presented to an individual, business or group that goes above and beyond for a rural water system or rural water cause. South Dakota Rural Water wants to recognize exceptional rural water advocates that stand out from the pack because of their commitment to rural water issues and/or their passion for the job. Eligible candidates include rural and community water consumers, employees, directors, as well as lawmakers, businesses, or any person or group that puts forth a noble effort to advance rural water.

DONALD B. POSPISHIL: This award honors the work of Don Pospishil who dedicated many years of his life to helping small water systems across South Dakota. The Donald B. Pospishil Award is awarded to individuals who demonstrate leadership abilities in the water supply field, provide quality services to consumers, and exhibits professionalism and dedication while operating and maintaining a small water system.

THE REST OF THE STORY



**By Bill Thorson,
SDARWS Wastewater
Technician**

A few of the previous articles have mentioned a solution to a problem many wastewater systems in South Dakota are experiencing. The problem? Non-flushable items were causing issues with treatment plants, lagoons, and lift stations. Items including “flushable” wipes. The solution? The ideal solution would be public awareness of the issues of flushing “non-flushables.” Alas, we all know that will not happen easily, so on the backside, system operators have been getting quite creative in finding solutions to the problem.

One system has a basket hung under the drop pipe coming from the nearby nursing facility/assisted living building. The basket keeps most of the unflushables from causing issues farther down the pipe. The basket needs to be emptied often and checked even more frequently to prevent other problems but is better than clogging the rest of the system. Other systems have augmented their baskets in the lift station with small hole wire mesh formed inside the existing basket. The smaller holes in the wire mesh allow most of the waste to get through but hold back the unflushables. The mesh wire does not last forever, so it needs to be replaced often. Again, not ideal but better than pulling and unplugging the pumps every week.

One system has the best solution seen so far. The City of Winner has taken a proactive approach to the unflushables problem. Previous articles mention the improvements made to the new lift station that is now completed and online. The thought and attention to detail are superb. Bypass pump and backup generator on-site as well as being portable if needed. Valves marked and available if needed for bypassing the wet-well, just the pumps, or both. However, the crown jewel of the setup is the screen apparatus.

The rotary screen and cleaning mechanism look like a small missile in a silo waiting for launch codes. The controls monitor levels above the screen, and when the water reaches a certain level, the motor engages to pull the screenings up and out the top into a waiting garbage can. The screen itself is tubular and resides in the bottom of the system. Access to clean and maintain the apparatus is through a lid at the top of the screen wet-well. Some cleaning is still necessary but only if the screen holes are clogged with solids. A wash-down attachment is available for easier no entry cleaning.

The lift station has worked well so far, according to Dan and Mark. It was not cheap to rebuild a whole lift station, but neither is continued maintenance and man-hours on clearing and repairing pumps and clogs. The pictures only show some of the improvements. The money spent is well worth fewer headaches from a problem that will not end soon, especially if your system is planning some upgrades anyway. If you want more info, call Dan or Mark at the City of Winner shop or stop by and ask for a nickel tour. The whole department is happy to show it off a little. ♣



Top section of screen



Screenings out to hopper



Screen wet well



Screen control panel



Bypass pump



Valve pit



Bypass hoses

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.

f t in YouTube



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

www.ae2s.com

STRUCTURE. & INTEGRITY.

**PITTSBURGH
TANK & TOWER
GROUP**



"100 years and still climbing"

**CREWS
AVAILABLE
GLOBALLY**



www.pttg.com

INSPECTIONS REPAIR TANKS



| | | |
|------------|------------|------------|
| Wet | Code | Elevated |
| Dry | Updates | Ground |
| ROV | Paint | Relocation |
| In-Service | Insulation | Erection |
| Cleaning | | Dismantles |

NEW TANKS - Rick DiZinno (270) 826-9000 ext. 2601
EXISTING TANKS - Patrick Heltsley (270) 826-9000 ext. 4601



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



SINCE 1893

THEIN WELL

- WELL DRILLING
- PUMP SALES/SERVICE
- WELL REHABILITATION
- WELL ABANDONMENT
- GEOTHERMAL
- WELL TELEVISION
- GEOPROBING
- SOIL BORINGS
- MONITOR WELLS
- REMEDIATION WELLS
- ROCK CORING
- GAMMA/E-LOGGING

24 Hour Emergency Service
1-800-450-8000
www.theinwell.com



Bartlett & West

Engineering water solutions for community growth.

Clean, safe and reliable water is a basic building block of a modern community. Residents and industry depend on your system. You need proactive communications regarding system needs and innovative, comprehensive solutions. As a national leader with long-time relationships in water-focused services, Bartlett & West is your ally for success.

5900 S. Western Ave., Ste. 101 ■ Sioux Falls, SD
(888) 200-6464 ■ www.bartlettwest.com



CERTIFICATION PRACTICE QUESTIONS

1. WHICH TWO CHEMICALS ARE THE MAIN CAUSE OF HARDNESS?

- a. Sodium and Potassium
- b. Calcium and Manganese
- c. Calcium and Magnesium
- d. Sodium and Magnesium

2. WHICH OF THE FOLLOWING IS A PHYSICAL CHARACTERISTIC OF WATER?

- a. Turbidity
- b. Hardness
- c. Alkalinity
- d. pH

3. WHICH OF THE FOLLOWING IS A FORM OF CARBONATE HARDNESS?

- a. Magnesium Sulfate
- b. Calcium Bicarbonate
- c. Calcium Chlorine
- d. Ferric Hydroxide

4. WHICH TREATMENT CHEMICAL COULD CAUSE PINK WATER COMPLAINTS?

- a. Chlorine
- b. Soda Ash
- c. Potassium Permanganate
- d. Chloramine

5. WHAT IS THE CHEMICAL NAME FOR PEBBLE LIME?

- a. Calcium Carbonate
- b. Calcium Hydroxide
- c. Calcium Oxide
- d. Calcium

6. WHAT IS THE CHEMICAL NAME FOR SLAKED LIME?

- a. Calcium Carbonate
- b. Calcium Hydroxide
- c. Calcium Oxide
- d. Calcium

7. WHICH IS TRUE ABOUT 1 TON CHLORINE CYLINDERS?

- a. They have two valves at one end
- b. The fusible plugs is located on the valve body
- c. A full container weighs 2000 lbs.
- d. They are fed in a vertical position

8. WHICH IS TRUE ABOUT 1 TON CHLORINE CYLINDERS?

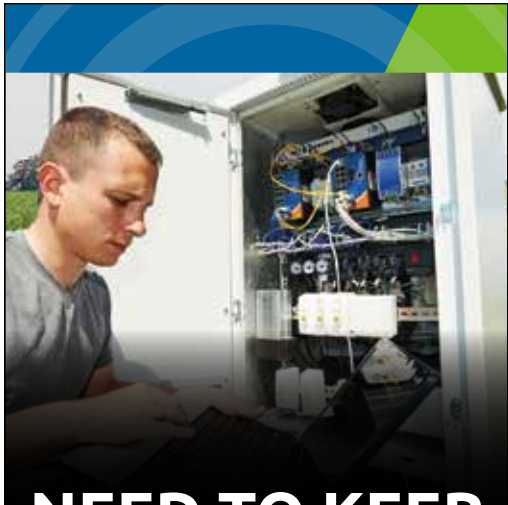
- a. They have single valve at one end
- b. The fusible plug is located on the valve body
- c. A full container weighs 150 lbs.
- d. They are fed in a vertical position

9. EXCESS FLUORIDE IN WATER (BETWEEN 2 AND 4 MG/L) CAN CAUSE?

- a. Cavities
- b. Mottling of the teeth
- c. Erosion of the tooth enamel
- d. Death


10. THE SPECIFIC GRAVITY OF GASSES IS BASED ON?

- a. Water
- b. Air
- c. Nitrogen
- d. Oxygen



NEED TO KEEP THE WATER FLOWING?

Thompson Knows **CONTROLS & AUTOMATION**

 System Design & Engineering

 UL Certified Custom Control Panel Fabrication

 SCADA/HMI Systems Development

 Maintenance Service Hardware/Programming



CALL TODAY!
866.258.8462
thompsoninnovation.com
sales@thompsoninnovation.com

1. C; 2. A; 3. B; 4. C; 5. C; 6. B; 7. A; 8. A, B, & D; 9. B; 10. B

QUICK & EASY FINANCING SOLUTIONS



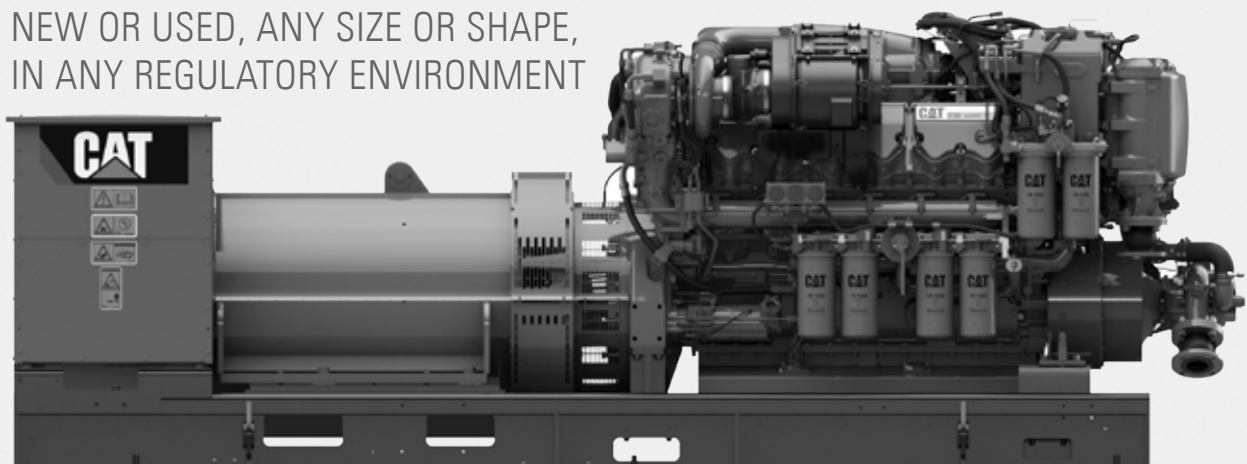
www.cobank.com/h2oloan

844-846-3135

Proud Member of the Farm Credit System 

WHEN YOU
NEED POWER WE
THERE FOR YOU. ARE

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



877.365.8114
BUTLERMACHINERY.COM

Butler 

FIXING LEAKS BEFORE STURGIS



**By Mike Moeller,
SDARWS Technical Assistance/
Training Specialist**

Living in South Dakota, you are very aware of the annual Sturgis Motorcycle Rally and know that many things happen in the state prior to it starting. On the western side of the state, you can tell that the Rally is getting close by the increasing number of motorcycles traveling on the roads. Another way to tell is all the road construction on Interstate 90 west river is partially completed, but all lanes are again opened for the increased traffic.

One thing that people take for granted is the infrastructure in the cities and rural areas that supply water to the hundreds of thousands who attend the Rally. The last thing you want is a problem with your system during the influx of people to the area.

Bear Butte Valley Water had on such incident happen to them right before this year's Rally. They supply water to most of the campgrounds and to the Full Throttle Saloon just outside of Sturgis. The average daily usage for the system is around 70,000 gallon per day. They called and said that the usage had gone up to 150,000 gallons per day, and they needed assistance in finding out where it was going.

SDARWS met with Dennis Kinslow, and we started tracking down the water

flow by closing valves almost all the way to listen for large flow going through the valve. The flow was determined to be going east of the main booster. We started following the main line and closing every valve along the way. We did this until we got to the point where water was flowing through one valve, and a mile down the road water was not moving through, thus isolating the leak down to this one mile of pipe. The only problem with the mile of pipe where the leak could possibly be was that the creek that runs through the area was more like a raging river due to all the recent rainfall. We drove every inch of trench line that we could in hopes of hitting a soft spot and finding the leak, but we didn't have any luck. It was then determined that the creek crossing had to be eliminated from the equation by installing valves to isolate the pipe on both sides of the creek.

So, Bear Butte Valley Water had valves installed on both sides of the creek. After closing and listening to the valves, it was



Map image of water main and creek crossing

...continued on page 32



The creek that is usually a trickle

STURGIS: continued from page 31...

determined the water leak was after the creek. This was a huge relief knowing that a new bore would not be needed under the creek.

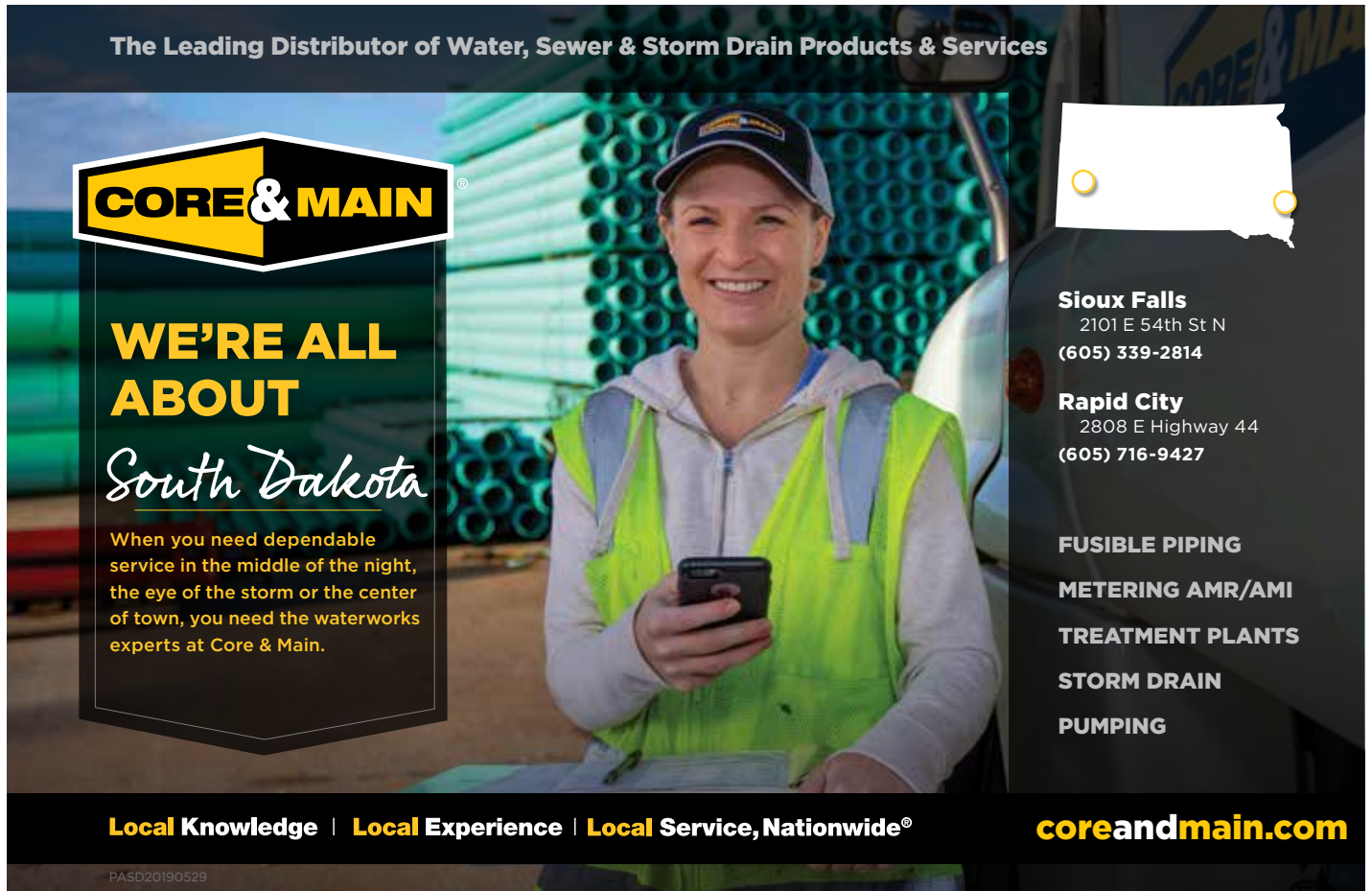
The search area was now down to about a quarter of a mile. A contractor was then brought in to pothole so that leak detection equipment could be used to help find the leak. A pothole was placed every 300 feet, and correlation equipment was used. We only came up with one very small hit. The area where the hit was located and was excavated, and there wasn't a leak at that point. The area where the hit was indicated had so much water in the ground that it was hard to tell which direction the water was flowing from. It was decided at that point to start exposing the main joint by joint and see if anything would surface. Well, it did. One of the joints where the pipes were pushed together, and once the weight of the ground was off of it, water was flying everywhere. The line was then shut down, and repairs were made to the pipe; everything was backfilled, and the system was in full operation again.

The water leak that occurred at Bear Butte Valley Water is just one example of how important the infrastructure is that we use every day. During the Rally, Bear Butte Valley's water usage already doubles up from normal use, and with this leak, they would have never been able to keep up with the demand from the Rally goers. Many systems in the Black Hills gear up for the Rally and hope they never encounter problems. In the end, all went well during the week of Rally, and everyone made it through another year without any significant issues.💧



Saturation in the ground at two feet down

The Leading Distributor of Water, Sewer & Storm Drain Products & Services



CORE & MAIN®

WE'RE ALL ABOUT
South Dakota

When you need dependable service in the middle of the night, the eye of the storm or the center of town, you need the waterworks experts at Core & Main.

Sioux Falls
2101 E 54th St N
(605) 339-2814

Rapid City
2808 E Highway 44
(605) 716-9427

FUSIBLE PIPING
METERING AMR/AMI
TREATMENT PLANTS
STORM DRAIN
PUMPING

Local Knowledge | Local Experience | Local Service, Nationwide®

coreandmain.com

PASD20190529

PHOTOS FROM THE FIELD



SDARWS Circuit Rider Jeff Fossum in Baltic with City employees, Dan Hotzler and Ken Johnson cleaning valve boxes and exercising valves.



SDARWS Circuit Rider Nick Jackson in Kadoka assisting with leak detection and flow/pressure testing.

SDARWS co-hosted a hands-on Water Operations Workshop with DSG in Aberdeen and Colman. This class covered curb stops, meter pits, fittings, valve design, water meter technology, and the use of tracer wire.



SDARWS Circuit Rider Greg Gross took this picture in Hudson where he got a look at these water storage and pressure tanks from the beginning of the century that are still in use today.

Sometimes the leaks come to us! SDARWS Circuit Rider Greg Gross was on hand to help the City of Madison search for a leak in front of our office.



To see more pictures of SDARWS in action, follow us on Facebook at www.facebook.com/SDRuralWater



FROM THE EXECUTIVE DIRECTOR

KURT PFEIFLE, EXECUTIVE DIRECTOR

“Ultimately, leadership is not about glorious crowning acts. It’s about keeping your team focused on a goal and motivated to do their best to achieve it, especially when the stakes are high, and the consequences really matter. It is about laying the groundwork for others’ success, and then standing back and letting them shine.” –Chris Hadfield (Canadian Astronaut)

The South Dakota Association of Rural Water Systems (SDARWS) will hold its 13th annual Leadership Conference on November 13 & 14, 2019 at the Ramkota River Centre Hotel in Pierre, SD. The Leadership Conference began in 2006 and was intended to help mold current and future leaders of the rural water industry in South Dakota. The conference was tailored to the officers of governing boards and managers of systems. As the conference grew and matured, it was opened to all members of the governing board and all rural water personnel who play a leadership role at their respective systems. After all, it’s good to keep your existing leaders current on the role they play and the responsibilities they have, but you need to be conscious of who will be filling the void as those leaders separate and exit their systems.

Since 2006, SDARWS has brought excellent training opportunities to those in governance and management positions at South Dakota Rural Water Systems. The Leadership Conference has continued to grow and gets better with each subsequent year. The 2019 Leadership Conference will continue with the tradition of growth and improvement. We hope and encourage all rural water systems to give thoughtful consideration to attend this year’s event.

On the conference agenda you will find:

- Water System Depreciation
- Manager Panel (Strategic Planning, Serving Small Communities, Rate Strategies & SDWARN)

- SD Water Rights
- Workplace Issues 2020 – 2030
- NRCS – a focus on water quality
- NRWA Demystified (what NRWA does for you)
- Social Media and websites for utilities
- EPA Criminal Investigation Division

In addition to the many great agenda items, attendees will have the opportunity to hear from Hunter Roberts, the newly appointed Secretary of South Dakota Department of Environment & Natural Resources. Mr. Roberts will be the guest speaker at the President’s Reception on the evening of November 13th.

Please make plans to join us at the 13th Annual SDARWS Leadership Conference! We’d love to see you there!





We help protect your personal information from getting into the wrong hands.

IDShield Plan Benefits:

- \$1 Million Protection Policy
- Unlimited Service Guarantee
- Identity, Credit, Social Media Monitoring, Plus Real Time Alerts
- Username and Password Combination Monitoring – *ONLY AVAILABLE WITH IDSHIELD!*
- Full-Service Identity Restoration
- Child Monitoring (Family Plan only)
- 24/7 Emergency Access

www.legalshield.com/info/sdrws



Identity Theft Services at Your Fingertips

With the IDShield Plus mobile app you can track your alerts, check your credit score and have on-the-go access 24/7!



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





203 W. Center Street
P.O. Box 287
Madison, SD 57042
www.sdarws.com



SOUTH DAKOTA RURAL WATER

LEADERSHIP SEMINAR

2019 RURAL WATER
BOARD TRAINING EVENT

SAVE THE DATE

NOVEMBER 13-14, 2019

RAMKOTA HOTEL, PIERRE, SD

REGISTER ONLINE AT: [HTTPS://TINYURL.COM/SDLEADERSHIP](https://tinyurl.com/sdleadership)