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President's Message

Ron Gillen, SDARWS President



ATC Recap

This year's 2017 ATC was a resounding success. SDARWS was pleased to host a special guest from National Rural Water – Director John O'Connell from New York. We would like to thank all of those who attended and participated in all the various aspects of our conference. Without all of your support, this conference would not be possible. We would especially like to thank all of our conference sponsors: Premiere Sponsor – AE₂S; Educational Session Sponsor – Bartlett & West; Awards Brunch Sponsor – Rural Water Center; Break Table Sponsors: HR Green, CoBank, Butler Machinery and DGR; Keg Sponsors – AE₂S, DSG, Great Northern Environmental, and HR Green; Wine Sponsor: Engineering America; Bag Sponsor Thein Well; Water Sponsor – Clark Engineering; Hotel Key Sponsor – Banner Engineering; Lanyard Sponsor – Hydro-Klean; T-Shirt Sponsors – Dale Weaver Inc, Electric Pump Inc, Engineering America, Kodru-Mooney, Maximum Promotions, Sioux Valley Environmental, and Treatment Resources Inc. See page 16 for the recap. I would also like to thank all of our exhibitors – for without you, our event would not be possible. 💧

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Training Calendar

FEBRUARY

22 – STABILIZATION POND

Aberdeen Ramkota
1400 8th Avenue NW, Aberdeen SD 57401

This course covers the material on the Association of Boards of Certification Stabilization Pond Exams. It does not cover material on the Class I or higher Wastewater Treatment Exams. This is a single day workshop starting at 8:30 a.m. local time and wrapping up around 4:30 p.m.

28-MARCH 2 – WATER DISTRIBUTION

Sioux Falls Water Purification Plant
2100 N. Minnesota Avenue, Sioux Falls, SD 57104

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.

MARCH

21-23 – WASTEWATER COLLECTION

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 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.

APRIL

6 – STABILIZATION POND

Oacoma Community Center
100 E. 3rd Street, Oacoma SD 57365

This course covers the material on the Association of Boards of Certification Stabilization Pond Exams. It does not cover material on the Class I or higher Wastewater Treatment Exams. This is a single day workshop starting at 8:30 a.m. local time and wrapping up around 4:30 p.m.

11 – INTERMEDIATE WATER TREATMENT

Sioux Falls Water Purification Plant
2100 N. Minnesota Avenue, Sioux Falls, SD 57104

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.

25 – BASIC WATER TREATMENT - SIOUX FALLS

Sioux Falls Water Purification Plant
2100 N. Minnesota Avenue, Sioux Falls, SD 57104

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.

MAY

9 – SMALL WATER TREATMENT

Huron Crossroads Hotel
100 4th Street SW, Huron, SD 57350

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.

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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.

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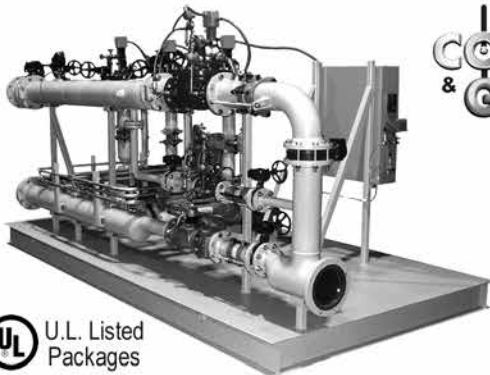
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Does your company have information to share that would be of value to our readership? If so, we would welcome your article submission for *ServiceLine Magazine*.

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

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



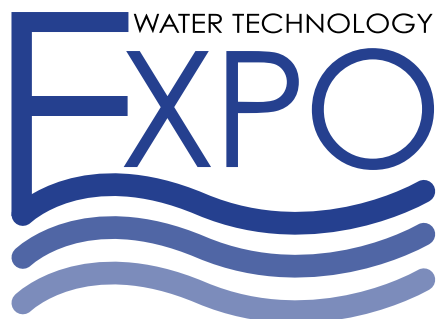
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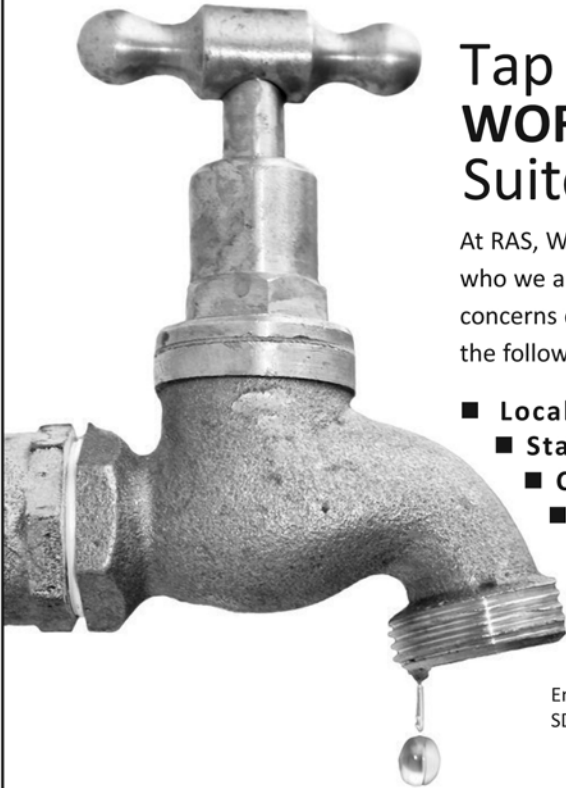


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SOURCE WATER PROTECTION WORKSHOP HELD

By Jeremiah Corbin, Source Water Protection Specialist

The Rural Water Source Water Protection Workshop was held at Redrossa Conference Center in Pierre on February first. This annual event is held to provide workshop attendees with information on resources available through the Rural Water Association, set priorities for the next program year and provide a venue for FSA, EPA and state agencies to bring priority areas to the forefront.

Along with providing a forum to share ideas and priorities for source water protection efforts, workshop attendees were provided an overview of source water protection specialist's previous year's achievements. South Dakota Rural Water provides assistance to community water systems in their efforts to develop source water protection plans. At a minimum, South Dakota Rural Water will develop three new plans annually while forging new relationships for future projects and spend time with systems that have previously developed plans.

A source water protection plan consist of seven basic components:

- A map outlining the source water protection area.
- Source water inventories.
- Potential contaminant source inventories.
- Define each entity's area of responsibility/authority in relation to potential sources from contamination.
- Preventative measures that may be initiated by each entity.
- A contingency plan that will consist of a strategy for supplying safe water to the consumer in the event of contamination or disruption of service.

- A Steering Committee to review and update the plan and follow through on preventative measure commitments from each entity.

Beyond developing source water protection plans, SDARWS staff are constantly striving to identify additional source water measures that systems can utilize based on unique circumstances. A few of these efforts include:

- Review of aquifer protection overlay district information to verify the area covered is appropriate for current needs.
- Communicate with water systems and NRCS for issues regarding the CRP program to ensure this tool is utilized as effectively as possible to conserve our resources.
- Biological control of leafy spurge utilizing flea beetles. SDARWS staff have been coordinating with South Dakota Department of Agriculture to participate in collection days with a goal of establishing flea beetle colonies on a few rural water system's well fields where leafy spurge is a problem.
- Continue to work with systems by being involved in outreach efforts, including: Sioux Empire Water Festival, Big Sioux Water Festival, and the Watertown Farm Show.

The Source Water Workshop provided an opportunity for the fifteen attendees to shape the direction the Source Water Protection efforts will be directed for the next year, if you were unable to attend this year's workshop but are interested in developing a source water protection plan, contact South Dakota Rural Water. ♦

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Click on the logo to return to sdarws.com

Click here to search for classes based on keywords, locations or dates

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View classes as a summary, calendar, or list (shown) AUGUST 27, 2015 - NOVEMBER 25, 2015

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Intermediate Water Treatment - Brookings
Starts: 9/1/2015 8:00 AM (CT)
Ends: 9/3/2015 11:30 AM (CT)

Click on the class title for details and registration info

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Tuesday, September 29, 2015

Hydrant & Flushing Workshop - Rapid City
9/29/2015, 8:30 AM - 4:00 PM (MT)

tweet class to your Twitter followers

Wednesday, September 30, 2015

Hydrant & Flushing Workshop - Oacoma
9/30/2015, 8:30 AM - 4:00 PM (CT)

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Name	Description	Quantity	Update
Intermediate Water Treatment - Brookings	Topics covered include: wastewater lab testing & microbiology; activated sludge, trickling filters, sludge handling; anaerobic digestion; aerobic digestion, sludge land application, sedimentation, stabilization ponds; distribution, DM's Surface Water Discharge Permits and advanced wastewater treatment math. Day 1 & 2 - 8:00 a.m. to 4:30 p.m.; Day 3 - 8:00 a.m. to 11:30 a.m.	<input type="text"/>	Update

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ADDITIONAL INFO

Attachments: Intermediate Water Treatment Agenda ← Agendas can be found here

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2016 RECAP

SOUTH DAKOTA RURAL WATER **LEADERSHIP SEMINAR**

By Jeremiah Corbin, SDARWS Source Water Protection Specialist

The eleventh annual South Dakota Rural Water Leadership Seminar provided an opportunity for 73 attendees from 21 different systems to learn, network and discuss some of the most pressing issues in rural water today. This year's Leadership marked the 4th year that the Pierre Ramkota has hosted the event. With an agenda filled with topics handpicked by Leadership Seminar attendees, this conference has become the can't miss event for decision makers in the industry.

The 2016 seminar started with a review of the ten keys to sustainable water system management. These management areas cover: product quality, customer satisfaction, infrastructure stability, community sustainability and economic development, stakeholder understanding and support, employee and leadership development, operational optimization – energy and water efficiency, operational resiliency, water resource adequacy and financial viability.

South Dakota Rural Water provides training that address the sustainable management areas to leaders tasked with system management and governing. Sustainability will continue to be a larger focus in the coming years as systems deal with a funding

environment that provides fewer and fewer grant dollars.

Laura Farris, the Region 8 EPA climate Change Coordinator provided a presentation on the effects of climate change on ground water. She provided attendees with information regarding climate variability and some examples from different parts of the country of its effects on ground water. This regional expert traveled from Denver to provide this information from the EPA's perspective.

The next topic on the agenda was Parliamentary Procedure. Nancy Moose, Professor of Adult Education at Dakota State University brought a fresh perspective to the topic. Attendees were delighted to engage in Dr. Moose's interpretation of Parliamentary Procedure. She had a comprehensive discussion on Robert's Rules of Order, and then proceeded with some hands on activities for the group.

"This was the most entertaining and interactive lesson on Parliamentary Procedure I have ever been part of," Dan Carlson remarked.

The final presentation for the afternoon was provided by Margo Northrup, SDARWS attorney and registered lobbyist. Mrs.

...continued on page 16





LEADERSHIP RECAP: continued from page 15...

Northrup provided a potpourri presentation on various legal matters that can and do affect rural water systems. She also dedicated some time to discussing a few matters that may be up for review by the legislature.

The keynote presenter for the conference was South Dakota Attorney General Marty Jackley. Marty discussed a variety of topics, including his time as a private attorney when he worked with rural water systems in the Rapid City area. The main part of his prepared statements dealt with conflict of interest issues and open meeting laws. After he completed those discussions, he opened the floor up for nearly 45 minutes of open discussion. This opportunity was very well received by Leadership Seminar attendees.

The seminar resumed at 8:00 am the next day with what has been one of the most loved and requested components of Leadership Training – a panel of Rural Water Leaders. Ron Gillen, Dave Meyerink, Greg Merrigan and Kurt Pfeifle provided information on strategic planning, holding productive meetings, and rate management.

Following a break, Brady Hustad with ArGIS provided a presentation on the cutting edge field of augmented reality. He is developing a product that incorporates asset management into

an augmented reality environment. This seems to be the next phase of GIS, where field staff can take a tablet out into the field and see system assets projected into the real world.

The next presentation was a comprehensive overview of Rural Development and the process necessary for securing financing through that organization. In addition, Leadership attendees were educated on the various avenues of funding available through Rural Development.

Economic Development and You was the theme of the final presentation. Joe Fiala, Research & Community Development Director for the Governor's Office of Economic Development (GOED) provided the information on this subject. The role of rural water systems in the larger economic development effort has perplexed several systems over the years. Many individuals were looking for clarity in terms of what is expected of rural water. This presentation provided an opportunity to have a conversation on Rural Water's ability to deliver quantities and qualities to membership while still aiding in community economic development.

The feedback received from this year's Leadership Conference has been very positive and attendees have provided topics to fuel the conference well into the future. The 2017 Leadership Conference is scheduled for Wednesday, November 15 through Thursday the 16th, 2017 at the Pierre Ramkota.




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JANUARY 10-12 ATC 2017 SOUTH DAKOTA RURAL WATER'S ANNUAL TECHNICAL CONFERENCE

By Jennifer Bame, SDARWS Communications & Marketing Coordinator

The South Dakota Rural Water Annual Technical Conference was held on January 10th-12th at the Pierre Ramkota. The 42nd annual event hosted numerous training opportunities for board members, managers, superintendents, and operations specialists. The 2017 ATC Sponsored by AE₂S (Premier Sponsor) and Bartlett & West (Educational Session Sponsor) hosted 450+ attendees representing rural, municipal and small utilities from across our state and provided ample training and networking opportunities for all in attendance.

This year we offered the chance for exhibitors to be set up in the hallways during the training sessions, or to occupy the Exhibit Hall for our Legislative Reception and Technology Exhibits. 76 manufacturers, suppliers, and engineering firms shared their knowledge, expertise and hardware during this year's conference.

This year we had four pre-conference sessions including a special session conducted by ESRI on GIS Tools for the Water Industry. The Opening Session later that afternoon opened to a packed house. Dr. Delvin DeBoer of AE₂S, the Premier Sponsor of the ATC, took the time to address the crowd and let them know how the future of water depends on them. Colonel Mark Johnson of Kansas was the 2017 keynote speaker, and his sessions focused on leadership and team building. Other sessions on day one included: Rural Development Funding, Chemical Storage Safety and Handling, Micro Filtration for Wastewater, Importance of High Resolution Data/Analytics, and Design Build Method.

After day one of pre-conference sessions and the Keynote address, conference attendees were ready to go for day two. Sessions were grouped for Board Members, Management, and Operations and touched on topics such as: Understanding Water Loss, Using GIS to Streamline Meter Replacement, Smartphone Data Collection, Drones in the Sky, Mixers and THM Removal, and Alternative Wastewater Treatment. As we have in past years, a congressional panel was held with staffers from the offices of Senator John Thune, Senator Mike Rounds, and Congresswoman Kristi Noem. Ben Ready, Kim Olson and Andrew Curley fielded legislative questions from the audience and gave updates of the happenings in Washington, DC.





The spouses were also kept busy creating burlap wreath masterpieces with SDARWS’s Communications and Marketing Coordinator Jennifer Bame. Following the wreath making, the ladies were treated to a soup and sandwich luncheon.

A legislative panel was held Thursday morning where attendees could drill the members of the 2017 South Dakota Legislature. Legislators in attendance at the panel were: Sen. Billie Sutton, Sen. Mark Mickelson, Rep. Lee Qualm, and Rep. Spencer Hawley.

Combine the previous mentioned sessions with numerous other topics relating directly to water and wastewater systems and conference attendees absorbed plenty of information to take home to their perspective water and wastewater systems.

At the conclusion of this three day event, systems and individuals were honored during the Awards Brunch sponsored by The Rural Water Center. John O’Connell from the the National Rural Water Association served as the awards ceremony keynote speaker. Mr. O’Connell spoke of SDARWS’s strengths as an Association and touched on the importance of being involved in democracy. SDARWS Trainer Jim Zeck took on the MC duties while SDARWS Vice President Dale Thompson, NRWA Director Larry Wasland, and SDARWS Executive Director Dennis N. Davis handed out awards.

One of the favorite awards, the Conventioneer’s Extraordinaire Award (commonly referred to as the “Chicken Award”) made yet another appearance at the ATC. This year a jolly leprechaun searched through the crowd to locate the mystery man. SDARWS Trainer Sid Munson took home a bobbleheaded likeness of himself due to his “peculiar” behavior on work trips, and for his unrequited love of corned beef and cabbage.

Conference Attendees Continue Support of Water Pac

Thanks to the many rural water systems that contributed items for the annual Water Pac raffle, your rural water association increased our Government Relations fund by \$3,800. Special thanks go out to all who purchased raffle tickets and for lending your support towards our State and Federal legislative programs.

Water Taste Test Contest: We Have A Winner!

During our conference this year we put samples from 18 municipal and rural water systems before our esteemed group of judges. This year the top four samples were subject to a public judging by Delvin DeBoer of AE₂S, Erin Dreis of DENR, and Shiloh Baysinger of Perkins County Rural Water. The judges sniffed, swirled, and tasted their samples in what proved to be a difficult decision. In the end, Lincoln



...continued on page 21



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ATC: continued from page 19...

County Rural Water was crowned as the winner, the City of Spearfish took second, and the City of Sioux Falls took third. Lincoln County went on to represent South Dakota in the National Rural Water Taste Test to vie for the distinction of “Best Tasting Water in the USA” during the NRWA Rally in Washington, DC.

Our thanks go out to attendees, speakers, and exhibitors and congratulations are in order for those who brought home individual awards. A complete list of award winners can be seen on page 22. ♦

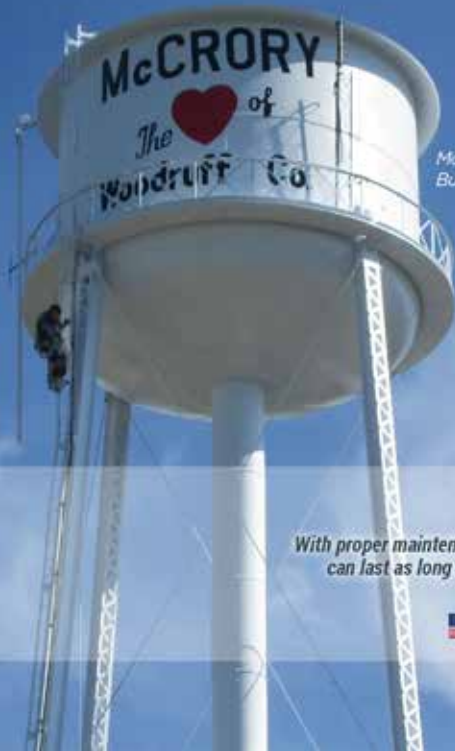


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- December 2017
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2017 ATC AWARD WINNERS

Municipal Office Person of the Year

Jennifer Mollman, City of Spearfish

Rural Water Office Person of the Year

Sarah Bruinsma, Sioux Rural Water System

Operations Specialist of the Year

Miles Bertzlaff, City of Spearfish

Rural Water System Operations Specialist of the Year

Todd Goodfellow, Sioux Rural Water System

Rural Water Operations Supervisor of the Year

Chad Anderson, Randall Community Water District

Municipal Water Manager of the Year

Jerry Przybylski, City of Keystone

Rural Water Manager of the Year

Jake Fitzgerald,
West River/Lyman-Jones Rural Water System

Water/Wastewater System of the Year

Town of Oelrichs

Rural Water System of the Year

Tripp County Water User District

Associate Member of the Year

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Donald B. Pospishil Memorial Award

Randy Asleson, City of DeSmet

Friend of Rural Water

Dave Odens, Banner Associates
Roger Lamp, Lincoln County Rural Water

Carroll Anderson Award

Ron Gillen, Aurora-Brule Rural Water

Spirit of Rural Water

Mike Neuharth, WEB Water Development
Tim Conner, Banner Associates
John Boyles, Rosebud Rural Water System
Brandi Baysinger, Perkins Co. Rural Water System
Marty Swallow, Oglala Sioux Rural Water System
Brian Christensen, Kingbrook Rural Water System

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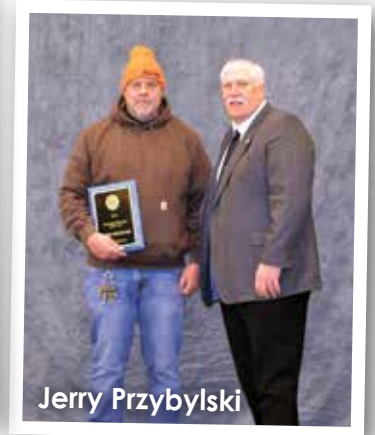
Sarah Bruinsma



Jennifer Mollman



Todd Goodfellow



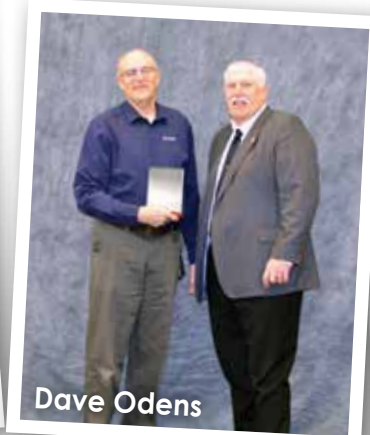
Jerry Przybylski



Randy Aselson



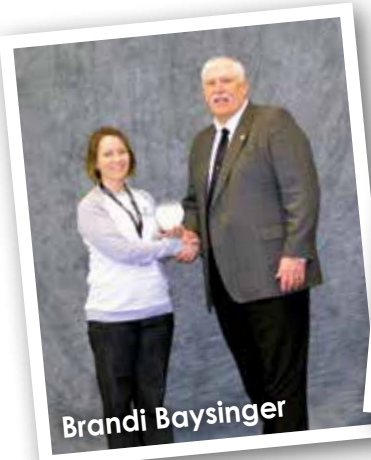
Miles Burtzloff



Dave Odens



Roger Lamp



Brandi Baysinger



Marty Swallow



John Boyles



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Disconnect the Sump Pump

By Jerry Hemeyer, SDARWS Wastewater Technician

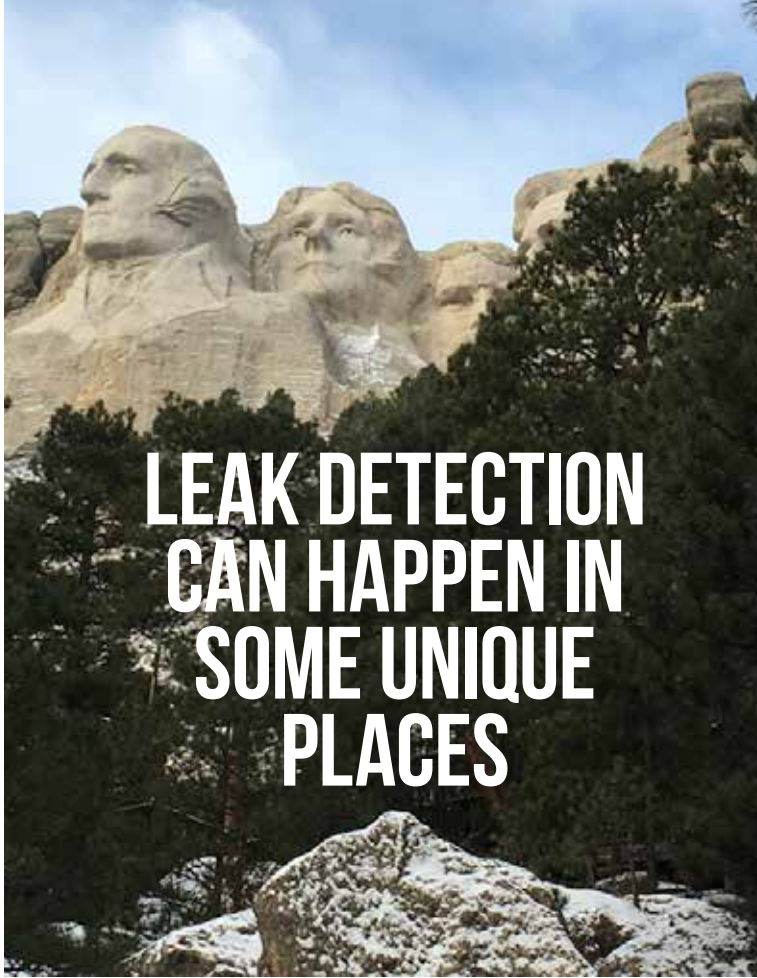
A sump pump is an appliance in a basement that pumps ground water out from around the basement. Some homes have sump pumps and others do not. Oftentimes sump pumps are improperly connected to the sanitary sewer system instead of having the water pumped into the gutter or storm sewer. In the 1960s and 70s it was common for homes to connect the sump pump or drain pipe directly to their home's sewer system. This water would then end up in the municipal sanitary sewer system.

The water entering the sewer system from homes and businesses could cause a hydraulic overload of the system's treatment facility. Wastewater flows could exceed the original design flow of the collection system resulting raw sewage in building basements. The resident with the illegal connection may not have sewage in the basement but could cause sewage to back into a neighbor's home. Removal of the illegal sump pumps connections could

significantly reduce the flow of excess storm related water in the sanitary sewer system. The cost of treatment and lift station pumping of the clean water to the treatment facility could be reduced significantly.

Every homeowner should check their homeowner's insurance coverage for sewer backups. Most utilities insurance coverage do not cover such occurrences since a six-inch rain fall in four hours is an act of nature. Some homeowners insurance covers a sewer backup, but have exclusions such as washer and dryer, furnace, water heater, or furniture.

Suggestions are to check the city ordinances to make sure sump pumps are not allowed in the system. In the ordinance check to make sure that the language is legal and can be enforced. Illegal sump pump connections should have a fine financially large enough to make the building or home owner want to fix the problem. Have them check with their insurance company to make sure they are covered in case of a backup. ♠



LEAK DETECTION CAN HAPPEN IN SOME UNIQUE PLACES

By Mike Moeller, SDARWS Circuit Rider

South Dakota has some spectacular scenery throughout the whole state – whether it’s the glacial lakes region of the northeast to Falls Park in Sioux Falls, and especially out west in the Badlands and the Black Hills. What most people don’t realize is that in every one of these places there are utilities buried under the ground to make the experience of the place more convenient for visitors. South Dakota Rural Water recently had the opportunity to perform leak detection on a water main at a major tourist destination.

If you have ever been to Mount Rushmore and have walked along the President’s Trail for a different view of the monument, you were walking right beside a water main that feeds multiple buildings that serve either staff or visitor facilities. The water main is a ductile iron main that is fed from a water reservoir that isn’t visible unless you get off the beaten path and wander up the hill to find it – even then you might walk right by it and not even notice. The water operation specialists at Mount Rushmore knew they had a leak on the line because it was coming out of the ground, but were unsure if the leak was directly below where the water was surfacing or if it was up the hill and was running down the trench line as it was surfacing.

We decided at this point that we would try using our correlation equipment to pinpoint where the water leak was originating. We set up the correlation equipment with one of the listening sensors mounted to the pipe at the bottom of the hill in a valve vault, and the second sensor was put on the pipe just outside the storage tank at the top of the hill.

The distance between the sensors was measured off with a measuring wheel and the data was inputted into the software on a laptop.

Unfortunately, the correlator was not able to come up with any data as to where the leak may be. It was determined that the total distance of water main that was being tested was too great, and we asked the maintenance personnel if there was possibly a way to shorten it up. There wasn’t anything in-between to mount the sensors to, so the correlator could not be used effectively to locate this leak.

While figuring out our next step in the process to find the origination of this leak, I noticed a vibration in the ground just up the hill from where the leak was surfacing. I walked a little bit down and couldn’t feel it, and then walked a little bit up from where the ground was vibrating and couldn’t feel anything. I had one of the maintenance workers stand on the spot where I could feel the vibration, and he could feel it too. It was then decided that the leak was right where we could feel the ground vibrating, and the maintenance workers agreed. Now they would have to figure out how to get an excavator in that area to dig it up. From last conversation we had with the Mount Rushmore staff they still hadn’t excavated the leak because they haven’t been able to figure out how to get equipment into the area due to the trees, the Presidential Trail walkway and the steep grade of the ground. It is an interesting situation, and I am anxious to see how this issue is tackled.

If your system is experiencing an unexplained leak, please give SDARWS a call at 605-556-7219. We have a lot of different ways to help pinpoint pesky leaks, and we’d love to help. 💧



Water flowing out from a crevasse in the rock formations.



Correlation equipment being powered by a generator to test the water main



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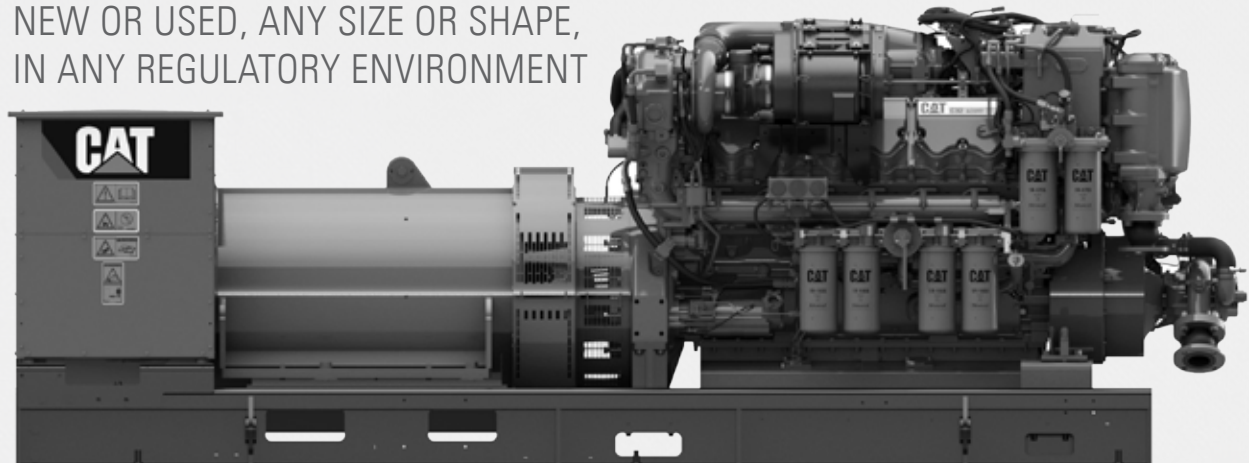
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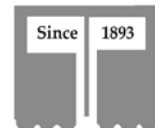
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1 A 0.250 MG clear well needs to have chlorine added to a dosage of 2.5 mg/L, how many lbs of chlorine gas (100% purity) will be needed?

- 2.36 lbs
- 3.46 lbs
- 4.85 lbs
- 5.21 lbs

2 Your system installs a new sodium hypochlorite (bleach) generator that produces a 0.8 % solution of sodium hypochlorite. In the past 24 hours you used 300 gallons of this hypochlorite solution and pumped an average of 900 gpm. What is your chlorine dosage (mg/L)? (Assume the hypochlorite solution has a specific gravity of 1)

- 1.9 mg/L
- 2.35 mg/L
- 0.85 mg/L
- 3.55 mg/L

3 Specifications allow for a maximum of 0.5 gallons/hr/1,000 feet of leakage in a new water main during hydrostatic testing. What would be the maximum allowable leakage (in gph) for 1 mile of new water main?

- 1.85 gph
- 2.32 gph
- 8.3 gph
- 2.6 gph

4 Your motor uses 30 KW of electrical power and has a water Hp of 35 Hp. What is the overall efficiency of the pump and motor?

- 74%
- 36%
- 13%
- 87%

5 A 500 Horsepower motor is equal to how many KW?

- 237 KW
- 485 KW
- 635 KW
- 373 KW

6 In May your system pumped 847,000 gallons of water, you billed for 735,000 gallons of water, what is your % water loss?

- 13.2%
- 86.8%
- 18.8%
- 81.2%

7 While checking the meter in the well house (meter measures in 1,000 gallons units) you find the meter reading on the first of the month was 102,830 and 108,996 on the last day of the month. After checking with the billing clerk you find that they billed out for 5,885,000 gallons. What is the % water loss for the month?

- 95.5 %
- 85.5 %
- 4.5 %
- 14.5 %

8 The pressure reading on the pipe leaving the treatment plant is 72 psi, and the pressure reading in the pipe a distance of 4,500 feet away is 64 psi, calculate the hydraulic grade of this portion of the distribution system.

- 0.41%
- 4.1%
- 0.0041%
- 41%

9 What would be the maximum thrust force expected on a hydrant installed on a 6" water main operating at 70 psi? Assume a surge allowance of 150% of system pressure.

- 1782 lbs
- 2144.8 lbs
- 2564.2 lbs
- 2967 lbs

10 If the soil around the hydrant in #9 has a bearing capacity of 2,850 lbs/ft². How many square feet of concrete thrust block will be required?

- 1.0 sq. ft.
- 3.0 sq. ft.
- 4.5 sq. ft.
- 6.0 sq. ft.

Answer Key

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



2017 RALLY RECAP

DENNIS N. DAVIS, EXECUTIVE DIRECTOR

This year 23 people representing eight rural water systems and the State Association traveled to Washington, D.C. to participate in the NRWA sessions and private meetings with Senators John Thune and Mike Rounds, Congresswoman Kristi Noem, and USDA Rural Development staff.

The goal was to focus our efforts on informing our elected leaders of the needs and concerns of water and wastewater utilities in South Dakota, and hopefully our leaders were receptive to help keep funding for rural water utilities in South Dakota alive.

Despite on-going change and deep uncertainty surrounding the nation's capital, the National Rural Water Association opened its 2017 Rural Water Rally on Feb. 7th with optimism about the success of their programs and eagerness to build new relationships moving forward. During the 2017 opening session, priorities were established to maintain funding levels for specific programs that provide assistance to small systems across the country. The speakers at the Rally opening included NRWA President Steve Fletcher of Illinois, the NRWA Legislative Chair Kent Watson from Texas, Deputy Staff Director for the US Senate Committee on Appropriations Fitzhugh Elder IV, and Former Chief of Staff for Senator Thad Cochran Keith Heard. The NRWA President Fletcher emphasized that change was underway, and that whether individuals agreed with that change or not, those changes were happening. "With the changes in D.C., we have our best opportunity in many years to affect the future of our water and wastewater systems," Fletcher said.

"These efforts have the chance to benefit our members for years and years to come."

Rural Water FY18 appropriations priorities were established as follows:

USDA Circuit Rider	\$17.404 million for FY18
USDA Source Water	\$6.5 million for FY18
EPA Technical Assistance	\$15 million for FY18

The Circuit Rider request has raised slightly to \$17.404 million and would maintain the current number of circuit riders in the field (117 nationwide). The USDA Source Water program stayed at a request of \$6.5 million – which would help bring a source water protection specialist to each state in order to better meet current demand. The EPA Technical Assistance request of \$15 million would continue a competitive grant program to provide rural communities with the training and technical assistance necessary to improve water quality and provide safe drinking water.

Besides the NRWA funding requests, appropriations for USDA Grant/Loans (\$600 million), EPA Drinking Water SRF (\$1,020.5 billion), and EPA Clean Water SRF (\$1,393.9 billion) were being supported by Rally attendees.

Your support makes a difference in our fight to preserve rural water loan and grant assistance. Thanks to everybody who attended the Rally – we couldn't do it without you! 💧





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