WE WANT YOU!
Do you wonder why projects featuring companies such as Arrowrock Engineering, LLC and municipalities such as the City of Helena, Montana are consistently highlighted in the APWA newsletter? That is because THEY SEND THE EDITOR ARTICLES! We are always looking for interesting projects and events to include in the newsletter. Please submit yours to Deirdre Castillo, dcastillo@pocatello.us.

CORRECT YOUR APWA CONTACT INFORMATION
Don't miss out on APWA updates! We receive too much returned mail. Go to http://www.apwa.net, log on, and update your contact information. Large municipalities often have several people listed under a group membership. To update this information, go to the APWA website and update your address. We receive too much return mail to update your address.

UPCOMING APWA EVENTS
April 21-23, 2015  2015 APWA Rocky Mountain Chapter Spring Conference - Pocatello, ID
Aug 30 - Sept 2, 2015  2015 International Public Works Congress & Exposition - Phoenix, AZ

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Deirdre Castillo, Editor, (208) 234-6587          Owen Campion, Assistant to the Editor, (208) 234-6226

Articles in this Issue:
• President’s Message
• 2015 Scholarships
• Boise City and Ada County Celebrate a Milestone
• Green Chemistry Steps Up to Control Corrosion from Deicers
• America’s Aging Infrastructure: Viable Solutions for Sustainability
• Public Works: The success of diversity and inclusion starts at the top
• APWA Members’ Library
• APWA Information and Networking on the Web

Spring Conference 2015
April 21 - 23, 2015
Pocatello, Idaho
Chris and his family enjoying a MSU Bobcat game

By Chris Hertz,

Chris and his family enjoying a MSU Bobcat game

Hopefully, this last year has been pleasant for all of you. The past year serving as President of the Rocky Mountain Chapter has been very rewarding for me. I’m sure you have all been busy since we last met. With the upswing in the economy, challenges are presented to us to continue to keep up with growth. The people in Public Works are the ones that deal with these challenges most often. During these times, APWA membership can be powerful tool for the people that take advantage of what is offered. APWA membership offers free educational opportunities in the form of archived Click, Listen, and Learns. Also, there are the infoNOW communities where you can post a question that thousands of professionals can view and answer. However, the biggest benefit in my mind is right in our back yard. All of the members of the Rocky Mountain Chapter are going through similar challenges. I know our office has not hesitated to pick up the phone and talk to fellow chapter members about issues and ask for advice. Many of the relationships we have with other members are established at the spring conferences. It is not only a great venue to acquire those precious continuing education credits, but a fantastic place to gain more knowledge from fellow members. I invite all of you to become more active within your chapter by attending the Spring Conference. This year’s conference is in Pocatello, Idaho April 21-23. If you are unable to attend this conference, please consider attending one of the future conferences. The conference in 2016 will be in Cheyenne, Wyoming, and the 2017 conference will be in Helena, Montana. Our chapter has always had the challenge of being spread out amongst three large states, but with today’s technology and the continuing efforts of APWA to connect with its members, the distance will be less of a hindrance for us in the future.

Our chapter is a growing chapter, and it is the goal of the board to continue to grow. We can only do this by continuing to reach out to the communities to let them know what APWA has to offer. Our chapter now has over 300 members, which is more than we have had in long time. If you are ever interested in getting more involved with the chapter, please feel free to contact any of the board members which are listed on our website. I look forward to seeing you in Pocatello.

By Chris Hertz,
President APWA Rocky Mountain Chapter
HertzC@ci.billings.mt.us

The Scholarship committee is now receiving applications for the 2015 Rocky Mountain Chapter of APWA Scholarship. The deadline is April 1, 2015 and is open to students entering or continuing vocational educational training, or entering or continuing educational opportunities at a 4 year college or university.

Each year up to three $1,000 scholarships are awarded to qualified students. The scholarships are open to residents of Montana, Idaho and Wyoming and attending secondary education in a tract/major related to Public Works. Typically one scholarship is awarded to a student from each state in the Rocky Mountain Chapter.

This scholarship is a great way to educate more people about APWA and to educate students about the importance of public works. Part of the application requires basic research of public works and asks them to demonstrate how and why public works is important to their everyday life.

The scholarship application can be downloaded from the web site at: http://rockymountain.apwa.net/ by clicking on News, Headlines, 2014 Rocky Mountain Chapter APWA Scholarship. The 2015 winners will be voted on at the Chapter board meeting at the Spring Conference in Pocatello on April 21 and relayed to the Chapter in the fall newsletter.

Pass the word to any potential applicant!!!!

By Kurt Thomson, Scholarship Chair
kthomson@seaeng.com

The Members’ Library

What is it?
ONE PLACE where APWA members can access pre-recorded Click, Listen & Learn (CLL) webinars, e-books, Power 15 podcasts, Congress presentations from prior years and more!
• Searchable by topic
• No additional fees beyond membership dues
• No limits to how often you access items in the Library
PLUS:
• No registration fees for live Click, Listen & Learn webinars
• No CEU/PDH recording fees

How do I get to it?
APWA members can access the Library by visiting www.apwa.net/MembersLibrary. Convenient links have also been placed at the top of the APWA homepage in the “Quick Links” box and on the Members Only webpage.

When is it available?
The Members’ Library is available 24 hours a day, 7 days a week.

What are the advantages?
The Members Library offers up-to-date, flexible, on-demand training and professional development to members without having to deal with the hassles of travel, schedule conflicts and delays individuals encounter when waiting for supervisory approval.

Visit the Members’ Library (you will need your APWA user name and password to access the Members’ Library) at www.apwa.net/Memberslibrary/index.

Non-Members Can Take the APWA Members’ Library for a Test Drive
Go to the homepage of APWA.net and you will be directed on how to see what the Members Library has to offer you – FREE OF CHARGE! Prospective members can obtain a full-access “test drive” of the Library for two weeks! Watch Click, Listen & Learn webinars, listen to Congress education sessions from past years, read the APWA Reporter online and more!

Visit the APWA Members’ Library today and begin your public works professional development experience!
Green Chemistry Steps Up to Control Corrosion from Deicers

By using liquid brines, agencies in these states are able to find short-term materials and labor savings, allowing them to invest in corrosion inhibitors and, in turn, realize substantial savings by avoiding the cost of repairing and replacing corroded fleet vehicles, snowfighting equipment and road infrastructure.

Rivertop has developed a corrosion reduction calculator that states and municipalities can use to project the savings that come with adding the company’s inhibitors to their salt brines. While each state has different deicing needs, Rivertop has found that in many cases a department of transportation can experience direct savings that are several times the cost of deploying Headwaters. Use of corrosion inhibitors also improves the public’s perception of road departments.

As more road agencies move to use highly effective liquid deicing treatments, the costs of corrosion will only increase unless new strategies are developed. Preventing corrosion won’t be the only qualification for a successful inhibitor, however, and that’s why transportation departments need to keep an eye on costs and environmental factors.

As most APWA members know there are not many cases where performance, cost and sustainability line up, but thanks to the advances in green chemistry, there is now more hope for reducing road departments’ expenditures on repair and replacement of vehicles, equipment and infrastructure.

A metal test coupon immersed in salt brine shows substantially more corrosion (Fig. 1) than a sample immersed in salt brine mixed with Rivertop’s Headwaters® corrosion inhibitor (Fig. 2).[14]

By Jason Kiely, VP of Marketing / Business Development Manager - Rivertop Renewables jason@rivertop.com

Rivertop has demonstrated their effectiveness in the first year of application, and MDT has continued to use the product as part of its winter road treatment strategies. During the 2013-2014 winter MDT applied 5.9 million gallons of inhibited salt brine, a volume that has increased steadily for several years.

In response to the success of the new product, Rivertop has increased production and is now making the Headwaters inhibitors available to winter road crews throughout the Rocky Mountain West.

The Rocky Mountain Chapter of the American Public Works Association will host the 48th Annual Spring Conference in Pocatello, ID. This conference will focus on innovative ways to meet building and infrastructure demands throughout the prudent use of resources, technology, innovations, and teamwork to support economic growth and create civic vitality. The event consists of a three-track technical session, exhibitor hall, product demonstrations, entertainment, golf scramble, and endless networking opportunities.

**REGISTER NOW!**

WHO SHOULD ATTEND? Anyone interested in public works activities including representatives from city, county, state and federal government, private sector consultants, contractors, suppliers, and elected officials.

WHY SHOULD YOU ATTEND? The opportunity to interact with other public works professionals, gain knowledge in areas of interest, be introduced to the newest products, and learn from others’ mistakes.

EXHIBITOR HALL: Visit one-on-one with company representatives, learn about the latest products and technologies, meet with engineering consultants to see if their speciality fits with your needs.

VENUE & LODGING

Red Lion Hotel
1555 Pocatello Creek Rd, Pocatello, ID 83201
(208) 233-2200 or www.redlion.com
Rates are $87.95/night for 2 queen beds or king, or $124.95/night for jacuzzi suite if you make your reservation by March 21, 2015. Call 1-800-RED-LION for reservations and request the group rate.

**CONFERENCE SCHEDULE**

<table>
<thead>
<tr>
<th>Monday, April 20, 2015</th>
<th>Tuesday, April 21, 2015</th>
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<tbody>
<tr>
<td>6:00</td>
<td>7:00 – 5:00</td>
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<tr>
<td>Rivertop Board Dinner</td>
<td>Registration Desk Open</td>
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<tr>
<td>8:00 – 12:00</td>
<td>Rivertop Board Meeting</td>
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<tr>
<td>Vendors Open</td>
<td>Lunch and Mayor’s Welcome</td>
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<tr>
<td>12:00 – 1:30</td>
<td>Break – Vendors Open</td>
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<tr>
<td>2:30 – 3:20</td>
<td>Concurrent Technical Sessions 1</td>
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<tr>
<td>3:40 – 4:30</td>
<td>Concurrent Technical Sessions 2</td>
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<tr>
<td>5:00 – 6:00</td>
<td>Break – Vendors Open</td>
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<tr>
<td>Dinner at Red Lion Hotel</td>
<td>Fun Night at Red Lion Hotel, Comedian Performance</td>
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<td>6:00 – 7:30</td>
<td>7:30 – 9:30</td>
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<td>Comedian Performance</td>
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**Thank you and we hope to see you in Pocatello!**

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The American Public Works Association is an international educational and professional association of public agencies, private sector companies, and individuals dedicated to providing high quality public works goods and services. There are over 29,000 APWA members. The Rocky Mountain Chapter includes 300 members in Idaho, Montana and Wyoming.

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If you have any questions please contact Deirdre Castillo at dcastillo@pocatello.us or by call 800 626 4653.

If you are interested in being a vendor and/or sponsoring the conference, please contact Jeff Mansfield at jmansfield@pocatello.us or by phone at 208 234-6212.
their eyes and recognize how their “lenses” influence how they interact with management, coworkers and the community. These lenses determine perception of fairness and equality within the workplace, and they create, attract, manage, and retain inclusiveness that leaders must endeavor to understand the positive effect of diversity.

Increasing organizational effectiveness to improve environment is a perennial challenge. Excellent organizations know that the status quo is not enough. They know that they cannot rest on their laurels, and that the mere presence of diversity does not automatically guarantee diverse perspectives will be valued or integrated into the organization. Inclusiveness in the sandbox will be the Catalyst for Diversity.

The Catalyst for Diversity can be established by organizations creating an Inclusiveness Model such as the Elevator Doors. The elevator doors are successful when diversity and inclusion start at the top.

- Floor 5 – No Elevator Door, Inclusive Organization
  o Diversity and inclusiveness are core values of the organization
  o Leaders and members have eradicated all forms of oppression and hidden barriers to success within the organization
  o Diversity is seen as a valuable asset to be developed

- Floor 4 – Elevator Door Fully Open, Redefining Organization
  o Works to create an environment that values and capitalizes on diversity and ensures full inclusion

- Floor 3 – Partially Open Elevator Door/Awakening Organization
  o Recognizes that recruiting efforts won’t solve the diversity issues and retention problems will not change without a totally different approach
  o Hidden or unofficial culture still undermines inclusiveness and erodes diversity efforts through attrition (racist/sexiest/heterosexist jokes and behavior still tolerated)
  o Diversity and inclusiveness efforts suffer in difficult economic times since diversity and inclusiveness are not core values for the organization

- Floor 2 – Partially Closed Elevator Door/Compliance/Tokenism Organization
  o Diversity is used as a compliance issue pressured by outside interest
  o Uses of community culture to base diversity hiring, recruitment or retaining
  o Only a few token employees to comply to inclusion responsibility

- Floor 1 – Completely Closed Elevator Door/Exclusionary/Discriminatory Organization
  o Has no diversity within organization staff
  o The organization’s way of doing things is viewed as the only “right” way and “business as usual”
  o Structure, policies and procedures maintain privilege of those who have traditionally held power and influence

Public works organizations cannot begin to maximize and leverage the many advantages of diversity until they make genuine progress, though inclusiveness initiatives, to retain, develop, and advance different ethnic, religious, sexual identity and gender groups.

It is time to stop talking about diversity and start taking action within your organization to make it really matter.

Mark A. Riley can be reached at (614) 410-4750 or mriley@dublin.oh.us.

Special Reminder: Please make sure you update your personal membership profile, including answering the optional questions 13-16 (see page 10, November 2013 Reporter). Please refer to APWA’s 2013 Diversity Resource Guide 2nd Edition and the Diversity Toolbox for more ideas in celebrating the diversity in your chapter.
Diversity plays a huge role in the success of your organization, as it allows opportunity to draw from the best talent regardless of personal or community demographics. Still, the inclusion of different ethnic, religious, sexual identity and gender groups in the workplace may make some employees uncomfortable. By delivering training sessions on diversity, building team dynamics and linking diversity to the organization’s success, leaders can make great strides toward promoting diversity and inclusion in the workplace. As we view our workplace environment, are we truly valuing the inclusiveness of those that do not look like us? The lens of perception to comfort levels has caused a desperate attempt to surround ourselves by those that look like us. Are we creating a healthy environment for all?

“Most people evaluate events in their lives according to how they will be personally affected. Leaders think within a broader context.” – The 360 Degree Leader, John C. Maxwell

Historically, workplace diversity revolved around women, people of color, and lifestyle choices, but now the sandbox has many forms of diversity to be considered in the workplace. The convergence of individual inclusiveness, with its own vision of how the world works, necessitates a new model for attracting and retaining the most talented people to your organization. To understand the possible diverse environment in your organization, you must see the world through the 360 degree lens of perception.

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2015 APWA Spring Conference, Pocatello

Proposed Schedule of Technical Presentations

<table>
<thead>
<tr>
<th>Track 1 Water/WW/Environment</th>
<th>Track 2 Transportation</th>
<th>Track 3 Municipal Management</th>
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<tbody>
<tr>
<td>Tuesday, April 21st</td>
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<td>2:30pm - 3:20pm</td>
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<td>Krystal Chanda &quot;Dam Permitting &amp; Construction&quot; - Executive Room - Moderator Assigned Therese Marchetti</td>
<td>Jim Hart &quot;Salt Bine as a Winter Maintenance Tool&quot; - Teton Room - Moderator Assigned - Steve Smart</td>
<td>Tamberli Wisley &quot;Maintaining a good attitude&quot; - Caribou Room - Moderator Assigned Mandi Everett</td>
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<td>3:40pm - 4:30pm</td>
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<tr>
<td>Wednesday, April 22nd</td>
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<tr>
<td>Jonathan George &amp; Kelly Schild Wastewater System Rehabilitation and Infrastructure Repair - The Advantages of URETEK Technologies for both Vault Water Infiltration &amp; Concrete Infrastructure Rehabilitation using Advanced Technologies - Caribou Room - Moderator Mike Jaglowski</td>
<td>Stephen Whittington &quot;Design Challenges Involved with Replacing Existing Bridge Substructure In-Water&quot; - Executive Room - Moderator Derekre Castillo</td>
<td>Kirk Stoltzner &quot;Understanding ADA Specifications &amp; Their Application&quot; - Teton Room - Moderator Owen Campion</td>
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<td>9:10am - 10:00am</td>
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<tr>
<td>Paul Taylor &amp; Nathan Smith &quot;Stormwater Modeling to Meet EPA Standards&quot;, Caribou Room - Moderator Mike Jaglowski</td>
<td>Doug Miller &quot;Stormwater Treatment - What if there are no rules?&quot; - Executive Room - Moderator Derekre Castillo</td>
<td>Andrea Gumm &amp; Josh King &quot;Navigating Conflict Successfully&quot; - Teton Room - Moderator Owen Campion</td>
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<td>10:25am - 11:15am</td>
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<td>Lunch and Keynote Speaker</td>
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<td>Thursday, April 23rd</td>
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<td>Andrew Kimmel &quot;Trenchless Rehabilitation &amp; Replacement&quot; - Executive Room - Moderator Jeff Mansfield</td>
<td>Chris Pitt &quot;How Advanced Seismic Analysis Maximizes Infrastructure Value&quot; - Caribou Room - Moderator Tammy Bartlett</td>
<td>Kasey Hansen &quot;Taking GIS to the Next Level&quot; - Executive Room - Moderator Kasey Guthrie</td>
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<tr>
<td>Paul Taylor &amp; Shane McFarland &quot;Making Retrofit Plans Part of Stormwater Capital Facilities Plans&quot; - Executive Room - Moderator Jeff Mansfield</td>
<td>Dennis Galinato &amp; Mark Cummings &quot;8th Street Sewer Rehabilitation and Realignment&quot; - Caribou Room - Moderator Meridirl Quayle</td>
<td>Kirk Stoltzner &quot;Understanding AASHTO Standards &amp; Their Application&quot; - Executive Room - Moderator Kasey Guthrie</td>
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<td>10:50am - 11:40am</td>
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<tr>
<td>Deirdre Castillo &amp; Scott Redding &quot;Cheyenne Crossing&quot; - Executive Room - Moderator Jeff Mansfield</td>
<td>Quinn Brown &quot;Reinforcing Asphalt Pavement with Aramid (Kevlar) Fibre&quot; - Caribou Room - Moderator Meridirl Quayle</td>
<td>Doug Gray &quot;Preparation &amp; Procedures for Properly Preserving &amp; Repairing Concrete&quot; - Executive Room - Moderator Kasey Guthrie</td>
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A good example of the URETEK Technology’s efficiency is the Rafter J Ranch Subdivision manhole rehabilitation project. In 2009, CST worked in conjunction with Matthew Ostek, P.E. of Rendezvous Engineering to repair 35 manholes, vaults, and 4 transfer stations at the Rafter J Ranch Subdivision just south of Jackson, Wyoming. The community was experiencing tremendous costs in wastewater treatment due to excessive amounts of water infiltrating their treatment facilities. Rehabilitation of all 35 manholes and vaults were made in less than a week and the repairs paid for themselves in one month based on the cost to treat the additional water infiltrating the system. Concrete Stabilization Technologies is the licensed URETEK affiliate for the Rocky Mountain region. We have partnered with many cities and towns throughout Colorador, Utah, Wyoming, and Montana including Saratoga, Cokeville, and Big Piney, WY, Greetly, Loveland, CO, and Salt Lake City, UT, using this innovative and effective technology to rehabilitate aging infrastructure. By Dawnie Warner Concrete Stabilization Technologies, Inc. DWarner@csstabilization.com

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The repair process is tailored to each unique situation, budget, and needs of the customer. Polymer is injected from the surface or through manhole walls through small 5/8 inch holes. The polymer in its liquid state travels through fissures and weak soils. The polymer expands and fills voids, cracked joints, and leaking concrete or brick walls while also strengthening the surrounding soil. The entire component may be realigned with connecting service lines, and overlying streets and sidewalks. Injections may also be made to quickly lift pavements, sidewalks, and curb and gutter back into alignment. Deep injection, soil stabilization at depth, may also be used to strengthen weak underlying soils and mitigate against further destruction, erosion, and settlement. Due to the material’s hydro-insensitive nature, it works well in wet conditions, has amazing water displacing qualities and quickly cuts off infiltrating running water. There is no need to shut down systems during repairs. The rapid cure time of the polymer, within about 15 minutes, allows treated areas to be used immediately following injections. The URETEK Technology infrastructure repair process is an effective cost saving tool that works in many infrastructure rehabilitation scenarios including wastewater systems, tunnels, culverts, dams and reservoirs, cut off walls, and emergency remediation of washouts, sinkholes, voids, and more. This advanced technology quickly resolves problems without excavation, prolongs the use life of existing infrastructure and provides municipalities and public works officials a valuable tool for dealing with our aging infrastructure.

Chapter Officers

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<tr>
<td>President</td>
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<tr>
<td>Chris Hertz, PE</td>
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<td><a href="mailto:jelias@cheyenneccy.org">jelias@cheyenneccy.org</a></td>
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Green Chemistry Steps Up to Control Corrosion from Deicers

Boise City and Ada County Celebrate a Milestone

Over 25 years ago a small group of dedicated, inspired government employees gathered to create a household hazardous waste collection event. No one told them to make it happen and really no regulations at that time required the activity. Yet, they knew the importance and value to the community in taking one small step toward ensuring public health and the environment were protected by the proper management of household hazardous wastes. Their hard work started Boise City and Ada County, Idaho on the journey we are celebrating this year.

Early program heroes were Robbin Finch, City of Boise Public Works, Dave Neal, Ada County Solid Waste Landfill Director, Dorrell Hansen, Ada County Highway District and Tom Turco with the Central District Health Department.

Through the support of the Boise Mayor and City Council, the commitment of the Ada County Board of Commissioners, and assistance from many organizations and volunteers – the first one-day collection event was held in May 1989. It was the second collection event in the state of Idaho and has grown to become an award winning example for communities across the state and nation.

That one day event became a two day collection event. And, in 1998, through strong public and political support the household hazardous waste program became what we have today – a permanent, year around collection program. Ada County constructed the hazardous waste management facility and is responsible for the proper recycling and disposal of all wastes collected. The 5,000 square foot state-of-the-art facility provides individuals and qualifying businesses the opportunity for proper hazardous material management.

We create solutions that build better communities

We don’t just dispose of over 14 Million pounds of hazardous wastes. We have collected more than 264,000 televisions and computer monitors – weighing over 12 Million pounds since 2002!

The program has far exceeded the modest goals set by the dedicated staff members in 1989 and we can be very proud of the partnership that has created this program; and of all the citizens that have visited our collection sites or worked hard to make this program such a grand success.

For more information contact Angela Deckers or Catherine Chertudi at Boise Public Works, P O Box 500, Boise Idaho, 83701-0500 or send an email to: adeckers@cityofboise.org or cchertudi@cityofboise.org

By Angela Deckers and Catherine Chertudi Boise City Public Works Department cchertudi@cityofboise.org

Fig 1

Despite these costs, the benefits of safer roads throughout the winter are far too great to justify abandoning road salts altogether, which means other methods of corrosion control are necessary. One option has been to add corrosion inhibitors to deicing brines. Until recently it has been difficult to find corrosion inhibitors that meets the necessary performance, budget and environmental requirements. In addition, inhibitors must be capable of quickly paying for themselves by slowing the repair and replacement cycle for the fleet vehicles, equipment and infrastructure subject to the corrosive effects of chloride deicers.

Rivertop Renewables, based in Montana, is applying a new breakthrough in green chemistry to control corrosion and help departmental budgets avoid additional maintenance costs for their fleets and infrastructure. The new products also benefit the broader public by limiting costly corrosion of private and commercial vehicles.

Derived from agricultural products, Rivertop’s Headwaters® corrosion inhibitors offer biodegradable, cost-effective, high-performance options for snowfighting professionals. These non-toxic additives to salt-based brines can reduce the corrosive impacts of deicers by more than 70 percent - exceeding industry standards set by the Pacific Northwest Snowfighters – a consortium of American and Canadian transportation agencies that benchmarks standards for road deicing products.

Yet these costs are real, and manifest themselves in higher maintenance and replacement rates for public and commercial vehicles, snowfighting equipment, and road infrastructure including bridge rebar and abutments.

The indirect costs of corrosion have been estimated to be 10 times greater than those above, and are often incurred as trucking fleet maintenance, private vehicle depreciation, traffic delays, lost productivity and other factors.

Over 25 years ago a small group of dedicated, inspired government employees gathered to create a household hazardous waste collection event. No one told them to make it happen and really no regulations at that time required the activity. Yet, they knew the importance and value to the community in taking one small step toward ensuring public health and the environment were protected by the proper management of household hazardous wastes. Their hard work started Boise City and Ada County, Idaho on the journey we are celebrating this year.

Early program heroes were Robbin Finch, City of Boise Public Works, Dave Neal, Ada County Solid Waste Landfill Director, Dorrell Hansen, Ada County Highway District and Tom Turco with the Central District Health Department.

Through the support of the Boise Mayor and City Council, the commitment of the Ada County Board of Commissioners, and assistance from many organizations and volunteers – the first one-day collection event was held in May 1989. It was the second collection event in the state of Idaho and has grown to become an award winning example for communities across the state and nation.

That one day event became a two day collection event. And, in 1998, through strong public and political support the household hazardous waste program became what we have today – a permanent, year around collection program. Ada County constructed the hazardous waste management facility and is responsible for the proper recycling and disposal of all wastes collected. The 5,000 square foot state-of-the-art facility provides individuals and qualifying businesses the opportunity for proper hazardous material management.

We create solutions that build better communities

We don’t just dispose of over 14 Million pounds of hazardous wastes. We have collected more than 264,000 televisions and computer monitors – weighing over 12 Million pounds since 2002!

The program has far exceeded the modest goals set by the dedicated staff members in 1989 and we can be very proud of the partnership that has created this program; and of all the citizens that have visited our collection sites or worked hard to make this program such a grand success.

For more information contact Angela Deckers or Catherine Chertudi at Boise Public Works, P O Box 500, Boise Idaho, 83701-0500 or send an email to: adeckers@cityofboise.org or cchertudi@cityofboise.org.

By Angela Deckers and Catherine Chertudi Boise City Public Works Department cchertudi@cityofboise.org

The cost of deicer-induced corrosion is no small problem. In 2013 there were 17 million tons of salt applied to roads and bridges in the United States, causing an estimated $8 billion dollars in direct corrosion damages. That’s about $470 of damage per ton of salt, a figure that doesn’t often factor into road maintenance strategies.

The indirect costs of corrosion have been estimated to be 10 times greater than those above, and are often incurred as trucking fleet maintenance, private vehicle depreciation, traffic delays, lost productivity and other factors.

Despite these costs, the benefits of safer roads throughout the winter are far too great to justify abandoning road salts altogether, which means other methods of corrosion control are necessary. One option has been to add corrosion inhibitors to deicing brines. Until recently it has been difficult to find corrosion inhibitors that meets the necessary performance, budget and environmental requirements. In addition, inhibitors must be capable of quickly paying for themselves by slowing the repair and replacement cycle for the fleet vehicles, equipment and infrastructure subject to the corrosive effects of chloride deicers.

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The fragility of our infrastructure as it ages is a major concern for municipalities and public works officials throughout the United States. The strength of our infrastructure can be determined by its ability to accommodate growth and change over time, withstand natural cycles such as freeze/thaw, heavy rain and run off, increased and decreased ground water, and natural disasters and increased demands. Our current infrastructure systems are failing to meet demands on a continual basis. Without effective sustainable solutions these aging systems pose a real threat to our natural environments and ecosystems.

Based on the 2009 “Report Card”, for America’s Infrastructure, our waste water systems are in sad shape, scoring a “D Minus”. Many components of our wastewater systems have been in service for more than 50 years. This is an amazing run to say the least, but since many of these systems have no relief from growing demands or funding for replacement in sight, we need to focus on ways to maintain and prolong existing structures.

Water Infiltration into aging manholes is a common issue faced by most municipalities. If a pre-cast manhole settles because of weak base soils, then there’s a real possibility that the pipe draining into or out of the manhole will crack and/or break. Cracks may develop in old brick manholes where mortar lines have deteriorated. Results in such sewer manhole conditions are the possibility of additional storm water entering the system, yielding higher water treatment costs downstream. With time and erosion, roadway surfaces around manholes and catch basins can sink, creating opportunities for large amounts of soil and water to infiltrate.

When concrete, plastic, clay, and even steel pipes that carry waste water and sewage crack, they can seep pollutants and harmful bacteria such as e-coli into surrounding ground soils. This situation can have devastating impact on the environment. Over time, these pollutants can penetrate underground aquifers impacting municipal drinking water supplies. Areas for these seepage problems include entry and exit piping for water treatment plants, storm drains, and sewer pipes. These infrastructures must be sealed against water seepage as municipalities comply with strict rules imposed by the EPA concerning the disposal of waste products and storm water runoff.

Necessity is the mother of invention. When something goes wrong or a unit fails, there is not always the option to replace. Most municipalities are working with very tight budgets and limited maintenance dollars. Maintaining, rehabilitating, and prolonging the use life of our aging infrastructure are necessary tasks for our communities.

Even when new components are installed, technology to maintain proper functionality in existing older sections is a must. Through our spirit of innovation and out of necessity to extend maintenance dollars, there are now a multitude of techniques available for the rehabilitation of existing infrastructure.

One of the most efficient and effective techniques for rehabilitation of leaking manholes, vaults, and service lines is through a process of sealing leaks, filling eroded voided areas, and realigning the existing structures and their components. The URETEK Technologies use a high density, hydro-insensitive expanding polymer to seal leaking joints, lines, and walls of manholes & vaults. The polymer fills voids, stabilized weak soil and lifts to realign settled structures and overlying roadways. The process is done completely on site with no excavation. It is quick, effective, non-disruptive, and repairs are permanent and safe for the environment and ecosystems.

Do you have questions NOW? Do you need answers NOW?

You’re not alone! When you’re faced with difficult questions concerning your community’s public infrastructure and need answers quickly, you now have access to the most knowledgeable professionals in the industry. Through its infoNOW communities, APWA connects you to the most informed public works experts who have know-how in the areas you have questions about.

What are infoNOW communities?

infoNOW communities are a highly-valuable benefit of your APWA membership, allowing you access to thousands of your peers with just the click of a mouse. infoNOW communities are public works email networks consisting of individuals (based on subject area) who share questions, answers and real-life experiences with each other. The best part is, as a member of APWA, this network of more than 28,600 professionals is available to you for FREE! Subscribe to one or all, it’s up to you.

How do I sign up?

You can easily subscribe to APWA infoNOW communities by visiting the APWA homepage at www.apwa.net, hovering over the “Discover APWA” menu, clicking the “Members Only” link and signing in with your username and password. A link to the infoNOW communities area will be on the Members Only landing page. Sign up for infoNOW communities today and start getting the answers you’re looking for!

For additional information or to subscribe to an infoNOW Community, contact APWA at infonow@apwa.net or call 1-800-848-APWA (2792).