

SOUTH TEXAS CHAPTER

e-Newsletter

FOCUS ON REDUCING URBAN WATER LEAKAGE

Article written by Peter Gutierrez

Courtesy of European Commission/EU

No resource is more fundamental to life and human society than water. Yet, globally, 25 to 30 percent of drinking water is lost every year due to leakages in urban water distribution systems.

The EU-funded project LEAKCURE ('Intervention for curing pipeline leakage in urban water mains') is proposing an innovative solution for the automatic detection, sealing and curing of typical network pipes, without digging up pavements and roads.

"The majority of network water leaks are not easily detectable by conventional means," says project coordinator Peter Paz of Israel's Curapipe System Ltd. "Traditional find-and-fix methods are inefficient, while eliminating several leaks all at once by replacing entire mains is expensive and disruptive."

Water stress, reflecting the balance between water supply and demand, is now showing up in areas where it was not generally seen before, such as in the UK, says Paz. At the same time, water stress is worsening in other areas, including parts of Southern Europe. This is partly due to climate change and partly due to other factors, such as increased urbanisation and industrialisation.

"In the past," he says, "pipeline leakage was not always considered a priority. Now, with water stress on the rise and a lack of readily available new water supplies, leakage levels in Europe and worldwide have started to draw more attention."

The LEAKCURE solution, dubbed 'Trenchless, Automated Leakage Repair' (TALR), involves launching special devices known as 'pigs', linked together in a 'pig train'.

A pig is essentially a plug-like device that can be made to move through a pipe, controlled via pressure and flow. Two pigs linked together can block the water in front and behind, while leaving a void in between. In the LEAKCURE pig-train, that void is filled with a special viscous curing substance, which travels down the pipe between the pigs.

"The train moves in a continuous fashion, never stationary," Paz says, "sealing leaks automatically as the curing substance comes into contact with a leak at any orientation within the pipe. The substance hardens and the leak is permanently cured as the train continues along the pipe."

Paz says current repair practices have tended to focus on damage control - keeping leakage from increasing rather than actually reducing it. "Our solution is geared to reducing current unacceptable levels of leakage by a significant amount, which in Europe means close to a third of the supplied water."

The LEAKCURE project is testing its new system in the UK, setting up local partnerships and field trials. Following the trials, and once the necessary adaptations are made to suit local contexts, the project will expand its activities beyond the UK.

Paz says Curapipe will market the TALR service to water utilities in partnership with local partners already active in water pipeline repair and maintenance.

"So far," he says, "our results indicate that we can repair the kinds of leaks that are responsible for most of the water loss. We are talking about leakages ranging from 40 to 3000 litres per hour. Extending that, if we can treat 40 kilometres of leaky pipeline, we could potentially save 1.7 million litres of pure drinking water every day."

According to the UK's Water Services Regulation Authority (OFWAT), the benefits of water leakage reduction will be significant, including more usable water left in the environment for other users,

SAVE THE DATE



TAWWA/WEAT NOVEMBER/DECEMBER

9TH ANNUAL SCHOLARSHIP DINNER

Date: Thursday, December 5, 2013

Time: 6:00 pm Social Hour
7:00 pm Dinner

Place: Old San Francisco Steakhouse

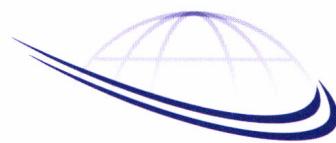
Speaker: Bexar County Commissioner
Kevin Wolff

EDITOR:
Lauren Hawa (lauren.hawa@freese.com)

GRAPHIC DESIGNER:
Samantha Hopkins (samantha.hopkins@hdrinc.com)

such as farmers, or to sustain natural habitats. Businesses and municipalities will spend less on new water supplies, saving on treatment and pumping costs, and, by rendering these operations more efficient, they will be able to reduce their energy expenditure and greenhouse-gas emissions.

LEAKCURE received over EUR 700 000 in EU funding under the Eco-Innovation Programme and will run through 2014.



Rene Moulinet
President / Production Manager

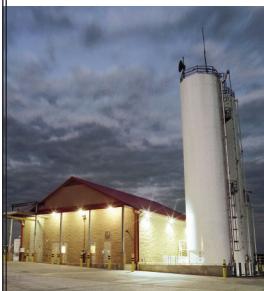
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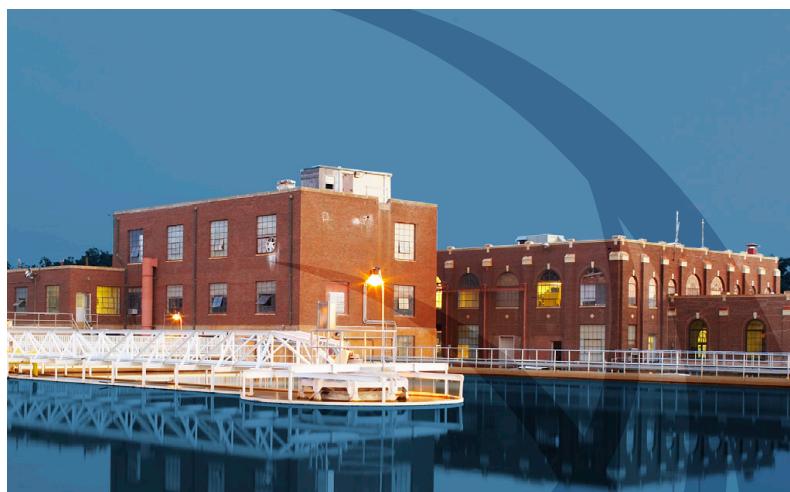


SPECIAL THANKS TO OUR SEPTEMBER AND OCTOBER SPEAKERS AND SPONSORS:



Thank you to Jeff Haby with SAWS for speaking about Sanitary Sewer Overflow Reduction program. Also, thanks to Freese and Nichols for sponsoring the September Meeting!

Thank you to our October Speaker, Jim Murphy with GBRA, who spoke about GBRA Ocean Desalination. Also, thank you to Arcadis Malcolm Pirnie for sponsoring the October Meeting!



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YOUNG PROFESSIONALS HAPPY HOUR

On Thursday, October 3, 2013, approximately 30 Young Professionals (and young at heart) gathered for a YP social at Freetail Brewing Company. It was a great evening – thanks to all who attended! And a special thanks for CP&Y for sponsoring the event!



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OLMOS BASIN ALLIANCE

The Olmos Basin Alliance (OBA) is a newly formed advisory committee to address the problem of man-made trash in Olmos Basin Park and the surrounding areas. The OBA includes representatives from the San Antonio River Authority, City of San Antonio, Bexar County, among many others. If you're interested in finding out more about the OBA or receiving the OBA's Good Neighbors to Nature newsletter, please contact Karen Bishop at 210-302-3642, or kbishop@sara-tx.org. More information can also be found on the OBA's Facebook page at www.Facebook.com/OlmosBasinAlliance.

WEBINAR

On September 11th, the AWWA South Texas Chapter sponsored the AWWA Water Well Rehabilitation and Asset Management Webinar at SAWS. The webinar was a huge success with over 50 attendees! The event was free to attend and lunch was provided. Be on the lookout for more great webinars in the future!

Civil Engineering | MEP Engineering | Structural Engineering
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William Causey, Jr., P.E. – Senior Associate/Senior Project Manager
922 Isom Road, Suite 100 | San Antonio, Texas 78216
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BASURA BASH

The local chapters of WEAT and TAWWA participated in another successful Basura Bash River Clean-up in the Olmos Basin on September 28, 2013. Close to twenty volunteers from several companies including SAWS, SARA, URS, CP&Y, LAN, and Klotz Associates attended the event. There is one more Basura Bash opportunity for 2013, so don't miss out on November 9th!



BASURA BASH

TAWWA/WEAT SAN ANTONIO CHAPTER



Saturday, November 9, 2013

9:00 - 11:30 a.m.

Location: Olmos Basin Park

To sign up,
email Cale Underberg
at cale.underberg@hdrinc.com
or
email Josh Marazzini
at JMarazzini@cpyi.com

Save the date



Keith Mayfield

867 FM 1966

Maxwell, TX 78656

kmayfield@wwatertec.com

www.wwatertec.com

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TAWWA/WEAT

South Texas Chapter

now on Facebook!

The South Texas Chapter of TAWWA and San Antonio Section of WEAT are now on Facebook!

Please go to the link below and “Like” South Texas Water Professionals to be connected and stay informed about upcoming events and activities.

facebook

South Texas Water Professionals

24 likes · 2 talking about this

Community

A joint effort of WEAT and TAWWA dedicated to spreading information and knowledge about the water business in South Texas.

About

Highlights

South Texas Water Professionals shared American Water Works Association's photo.

September 7

Keep calm and carry your own water. Americans consume nearly 30 gallons of bottled water a year despite the fact that it can cost from 240 to 10,000 times more than tap water. (Stats by Earth Policy Institute)

See All

Recent Posts by Others

Alissa Lockett · The deadline for TAWWA scholarship applications is to... July 26 at 10:40am

Roberto Macias · 2nd Annual Summer Seminar on Friday, August 10th! July 25 at 4:12pm

More Posts

South Texas Water Professionals · September 5

Just a brief update on the Water for People Golf Outing: Almost Internet | Protected Mode: On

visit us at

www.facebook.com/SouthTexasWaterProfessionals

Young Professionals Fall Forum

Date: November 19, 2013

Time: 11:00 a.m. - 1:00 p.m.

**San Antonio River Authority
Board Room
100 E. Guenther St.
San Antonio, Texas 78204**

**Ron Soos, Engagement Coach at
Rackspace Hosting, will teach you how to
discover and develop your individual strengths
in the workplace!**

Please RSVP to Heather Lindner at
heather.lindner@hdrinc.com,
by Friday, November 15.
Lunch will be provided courtesy of
TAWWA/WEAT.



Presents

Water Now:

An update from Area Agencies

Conducted by Bexar County, City of San Antonio Public Works, Edwards Aquifer Authority, San Antonio River Authority, San Antonio Water System

Friday, Nov. 1, 2013

The Tool Yard (10303 Tool Yard) San Antonio, TX

9:30 a.m. – 2:30 p.m. (including lunch)

Registration-9:30 a.m. - 10:00 a.m.

Program begins-10:00 a.m.

Earn 4.5 Professional Development Hours (PDH)

Leaders and experts from area public water resource agencies will present important updates and discussion about past, on-going and future issues.

Agenda includes:

- 10:00 a.m. – ***Innovations in Watershed Management and Planning***, by Steve Graham, P.E., Assistant General Manager, Russell Persyn, P.E., PhD., Watershed Engineering Manager, SARA
- 10:45 a.m. – ***SAWS Water and Wastewater Challenges***, by Kelley Neumann, P.E., Senior Vice President Strategic Resources, SAWS
- 11:30 a.m. – ***101 Overview of the Edwards Aquifer HCP***, by Chris Abernathy, Senior Coordinator, Habitat Conservation Plan Program, EAA
- 12:15 p.m. – lunch and ***Special Update***, by the Hon. Lyle Larson, Texas Rep., HD 122
- 1:00 p.m. – ***Infrastructure Maintenance Program (IMP) Briefing***, by Anthony Chukwudolue, P.E., Interim Director and Art Reinhardt IV, P.E., CFM, Assistant Director, Planning & Engineering, CoSA Public Works
- 1:45 p.m. – ***The Anatomy of the Bexar County Flood Control Program: 10 Years and \$500 million toward Managing the Floodplain in Flash Flood Alley***, by Dave Wegmann, P.E., Engineering Services Manager and Bobby Mengden, P.E., Project Director, Bexar County

COST:

**\$60/person or \$70/person at door
No Charge to Public/Government Agencies
Price includes lunch and drinks**

Reserve your spot now!

See registration information below.

Reserve your spot(s) by Oct. 29th

Advance Payment by Oct. 31st or pay \$70 at door

REGISTRATION

Name(s):

Firm/Agency: _____

Address: _____

CITY: _____ St/Zip: _____

Phone: _____

E-Mail: _____

Additional Attendees:

TOTAL AMOUNT DUE: _____

Make checks payable to: **ACEC-SA**
Mail or e-mail Registration to:



**P.O. Box 592598, San Antonio, Texas 78259
210.842.4055 anne@acectx.org**

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Contact:
anne@acectx.org**

LOCAL TAWWA / WEAT CONTACTS

TAWWA, South Texas Chapter Officers

Office	Name	Day Phone	Fax No.	E-mail
President	Steve Renneker, P.E.	210-321-5327		steven.reenneker@kbr.com
Past President	Greg Swoboda, P.E.	210-841-2800	210-841-2828	greg.swoboda@hdrinc.com
Vice President	Robert Jenkins, P.E.	210-227-1373		rjenkins@sara-tx.org
Secretary	Lauren Hawa, P.E.	210-298-3849	210-298-3801	lauren.hawa@freese.com
Treasurer	Vicente Garza, P.E.	210-233-3596	210-841-2828	vgarza@saws.org
Trustee	Andrea Beymer, P.E.	210-233-3490	210-233-5490	abeymer@saws.org
Deputy Trustee	Marisa Vergara, P.E.	210-494-8004	210-494-8286	mvergara@cpyi.com
Communications Chair	Alissa Lockett, P.E.	210-233-3401	210-233-4494	alockett@saws.org
Finance Chair	Andrew Hunt, P.E.	210-321-4353	210-854-9518	ahunt@rkci.com
Scholarships Chair	Marisa Vergara, P.E.	210-494-8004	210-494-8286	mvergara@cpyi.com
Water For People Chair	Jonathan Vorheis, P.E.	210-321-6256	210-349-8944	jonathan.vorheis@CH2M.com
YP Representative	Adam Conner	210-233-3452	210-233-4862	aconner@saws.org
YP Representative	Kira Iles, E.I.T.	210-404-1330	210-404-1370	IlesK@BV.com

WEAT, South Texas Section Officers

Office	Name	Day Phone	Fax No.	E-mail
President	Sterling Lee	210-302-4220	210-302-3692	sterling@sara-tx.org
Past President	David Bennett, P.E.	210-298-3829	210-298-3801	dtb@freese.com
Vice President	Cale Underberg, P.E.	210-841-2917	210-841-2828	cale.underberg@hdrinc.com
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Treasurer	James Scardami	210-268-3434	210-658-5830	jscardami@ccmatx.org
Section Representative	Dennis Laskowski, P.E.	210-233-3682	210-233-5234	dennis.laskowski@saws.org
Scholarships Chair	Josh Marazzini, P.E.	210-494-8004	210-494-8286	jmarazzini@cpyi.com
YP Representative	Heather Lindner, P.E.	210-841-2826	210-841-2828	heather.lindner@hdrinc.com
YP Representative	Lance Rothe, P.E.	210-841-2910	210-841-2828	lance.rothe@hdrinc.com

LOGIC PUZZLE

	First Names	Hobbies	Subjects
Last Day Of Work	Aaliyah	astronomy	metalshop
Subjects	James	hang gliding	woodshop
	Jaxon	painting	
	Pedro	rock climbing	
February 22			
March 11			
July 11			
October 10			
history			
home economics			
metalshop			
woodshop			
astronomy			
hang gliding			
painting			
rock climbing			



CLUES

1. The employee whose last day will be July 11 didn't teach woodshop.
2. The person who taught metalshop enjoys rock climbing.
3. The person who taught history is not Aaliyah or James.
4. Of James and Pedro, one is leaving the company on February 22 and the other enjoys astronomy.
5. The person who enjoys hang gliding will leave after Jaxon.
6. The person who taught woodshop is Pedro.
7. James will leave before the person who enjoys astronomy.
8. Either the employee whose last day will be October 10 or the employee whose last day will be February 22 enjoys hang gliding.

Last Day Of Work	First Names	Hobbies	Subjects
February 22			
March 11			
July 11			
October 10			

Answer to logic puzzle on page 8.

UPCOMING MEETINGS AND EVENTS

Date	Topic/Presenter	Event Host	Location
November 13, 2013	FREE Water Reuse Webinar	WEF	Webinar
December 5, 2013	9th Annual Scholarship Dinner	TAWWA/WEAT	Old San Francisco Steakhouse San Antonio, TX
January 15, 2014	FREE Stormwater Webinar	WEAT	Webinar
April 14-17, 2014	Texas Water	TAWWA/WEAT	Dallas, TX

SAVE THE DATE

TAWWA/WEAT 9th Annual Scholarship Dinner

December 5, 2013

Old San Francisco Steakhouse

LOGIC
PUZZLE
ANSWERS

February 22	James	Rock climbing	Metalshop
March 11	Pedro	Astronomy	Woodshop
July 11	Jaxon	Painting	History
October 10	Aaliyah	Hang gliding	Home economics

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(Lauren.Hawa@freese.com) to be removed
from the list.