



MEETING MINUTES

March 15, 2011

Attendees:

Anne Prudhel	Carollo Engineers	aprudhel@carollo.com
Bill Chavez	SRCS D	chavezb@sacsewer.com
Brian Avon	Carollo Engineers	bavon@carollo.com
Cindy Preuss	Harris	cpreuss@harris-assoc.com
Deanna Tanner	Brown & Caldwell	dtanner@brwncauld.com
Don Wible	Pacific Liners	don.wible@veoliaes.com
Duong Nguyen (Winn)	SRCS D	nguyendu@sacsewer.com
Eric Evans	RMC	eevans@rmcwater.com
Jacqueline Jaques	Sekisui SPR	jmjfrance@aol.com
Jonathan Lee	West Valley San	jlee@westvalleysan.org
Jose Dominguez	Exaro	jd@exarotec.com
Kimchi Tran	City of Santa Clara	ktran@santaclara.gov
Kurt Vincelette	RB Company	kvincelette@rbcompany.com
Roberts McMullin	EBMUD	rmcmulli@ebmud.com
Rita Cheng	CCCS D	rcheng@centralsan.dst.ca.us
Ryan Hook	Carollo Engineers	rhook@carollo.com
Ryan Sellman	Carollo Engineers	rsellman@carollo.com
Sandie Dudley	CDM	dudleysl@cdm.com
Sasha Mestetsky	CCCS D	smestets@centralsan.org
Tope Hall	Whitley Burchett	dolanian@whitleyburchett.com
Travis Tormanen	Kennedy Jenks	travistormanen@kennedyjenks.com

Presentation: Sekisui SPR – Spiral Wound Liners by Jacqueline Jaques the Western Region Business Development Manager of Sekisui SPR.

The presentation covered:

1. Introduction to Sekisui SPR
2. Applications and Case Studies
3. Onsite Demonstration Trailer
4. Questions

Highlights from the presentation include:

1. Sekisui Chemical has three main components: Housing Company, High Performance Plastics, and Urban Infrastructure & Environmental Products.
2. The SPR Spiral Wound Liners is part of the Urban Infrastructure and Environmental Products division.
3. Sekisui has four product liners:
 - a. SPR EX – small PVC applications
 - b. SPR PE – medium to large HDPE applications

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- c. SPR – large PVC applications
- d. Nordipipe – small to large fiberglass reinforced CIPP epoxy application
- 4. Sekisui has over 20 years of installation history and millions of feet installed.
- 5. Spiral wound liners have a design lifespan of 50 years.
- 6. SPR EX provides rehabilitation on gravity sewer pipelines from manholes.
- 7. SPR EX installation process includes:
 - a. Winding machine lowered into access point and set up at invert
 - b. Profile fed into the winding machine and wound in a fixed diameter to the upstream access point then restrained
 - c. Winding commences as the wired is pulled and breaks the sacrificial lock
 - d. SPR EX profile is then radially expanded creating a tight fitting liner
 - e. Laterals are immediately reinstated
- 8. SPR EX Case Studies include County of San Diego and City and County of Honolulu.
- 9. SPR PE provides rehabilitation for gravity and low-pressure application using HDPE.
- 10. SPR PE installation process includes:
 - a. Hydraulic machine is set in place at manhole/access location
 - b. HDPE profile fed to machine and wound into host pipe
 - c. Installation process continuously monitored via CCTV and computers
 - d. Pipe liner is formed via a continuous welding process
 - e. Reinstatement and connection of laterals done once liner is installed
 - f. Annular space is filled with a light weight cementitious grout
- 11. SPR PE Case Studies include City of Manteca, CA; Los Angeles County Sanitation Districts; and Salt Lake City, UT.
- 12. For more information on the presentation, visit our website at www.norcalpug.com.
- 13. Following the presentation, the PUG group explored the SPR Spiral Wound Liner demonstration trailer located in the parking lot of the building, visit the website for photos.

Handouts: Jacqueline provided a handout folder containing information on Sekisui SPR Spiral Wound Liner Products.

PUG gives a big thanks to Jacqueline and the Sekisui Demonstration Crew for the excellent presentation and onsite demonstration trailer.

General:

January 18, 2010 Meeting Minutes: A motion was made to approve the minutes, which was seconded and minutes are approved with no corrections.

Announcements:

2010/2011 Membership: Please submit your 2010/2011 membership renewals. Memberships cost is \$350 per entity. Remember that membership has numerous benefits, such as discounts for courses and conferences, participation in raffles held at random monthly meetings, discounts on attending the annual seminar, etc. Get your renewals and/or new member applications in today.

PUG Annual Seminar: PUG hosted the 19th Annual Sharing Technologies Seminar at Hs. Lordships in Berkeley on Thursday, February 17, 2011. The keynote speaker was Dr. Samuel Ariaratnam from Arizona State University. PUG thanks everyone who was involved with making this year a great success. Visit the PUG website at www.norcalpug.com for more information on papers and presentations.

PUG Go Kart Event: PUG is currently looking into options to host a go kart racing event this spring/summer. The Board is still working out the details. More information to follow soon.

UIM Webinars: The Water Utility Infrastructure Management (UIM) website hosts on-line and provides archived webinars related to water management. For more information, visit the UIM website: www.uimonline.com/index/webinars. Upcoming webinar for March:

- Evaluating and Deploying a Pressure Sewer System – Free Webinar – March 29, 2011, 11:00 a.m. Pacific Time

UIM Conference: UIM will be hosting a conference in Seattle on May 4, 2011. For more information, visit www.uimonline.com.

UIM Free E-Newsletter and Free Magazine Subscription: UIM is offering a free e-newsletter and magazine subscription. For more information, visit the UIM website: www.uimonline.com. In the current issue of UIM, UIM polled together the responses of six elected officials from across the country that participated in a Mayors Roundtable.

Trenchless Technology Webinars: The Trenchless Technologies website hosts on-line and provides archived webinars related to the trenchless industry. For more information, visit the TT website at: www.trenchlessonline.com/index/webinars.

Trenchless Technology News: CIPP turns 40 years old. The first CIPP project took place in London, England, in 1971.

Trenchless Technology Roadshow: A Trenchless Technology Roadshow will be hosted in Seattle on May 3 – 4, 2011. Visit www.trenchlessonline.com for more information.

Colorado School of Mines: Colorado School of Mines is offering a tunneling short course called Breakthroughs in Tunneling 2011. The course directors are Dr. Levent Ozdemir, P.E. and Timothy Coss. The course is offered September 19 – 21, 2011. For more information on registration, visit www.tunneling.com.

Water Environment Federation: WEF is offering a distance learning webcast (\$155 for members and \$195 for non-members) on Perspectives on Pipeline Renewal. Visit www.wef.org for more information.

AWWA and WEF are hosting the Utility Management Conference in Denver, Colorado over February 8 through 11, 2011. Water and wastewater managers and professionals will gather to discuss on the latest approaches, practices, processes, techniques, case studies, and research in all aspects of utility management. Visit www.wef.org for more information.

WEFTEC 2011 is scheduled for October 15 through 19 in Los Angeles, California.

NASTT No-Dig Show: The 2011 NASTT 20th No-Dig Show will be held in Washington, D.C. during March 27 – 31, 2011. Some of the PUG Board will be attending next year to represent Northern California. NASTT hosts an auction to help college students with scholarships. For more information, visit <http://www.nodigshow.com/>. We hope to see you there...

Akkerman donated a complete Guided Boring Machine system lease package to the NASTT educational fund auction. Typically, this equipment package would lease for \$42,000 per month. The bidding reserve is set at \$5,000.

Pipeline & Gas Journal: The 2011 Pipeline Opportunities Conference is scheduled for April 19, at the Intercontinental Hotel in Houston, Texas. For more information, visit www.pipelineandgasjournal.com for more information.

Technical Toolboxes: Technical Toolboxes is requesting help from the pipeline industry for training topics for 2011. For more information and to complete a survey, visit the toolbox website at www.ttoolbox.com.

BlueTech Tracker: BlueTech Tracker is offering webinar series hosted by O2 Environmental, Inc. The next webinar is scheduled for April 20, 2011, which will focus on Forward Osmosis. For more information, visit www.bluetechtracker.com.

Projects Discussions:

Jonathan Lee discussed a project that will replace 14,000 feet of existing clay pipe using the methods of pipe bursting, CIPP, and open trench. Pipe sizes include 6 inch to 12 inch diameters. The project includes one creek crossing and many permits. Jonathan is expecting construction this summer and completion within six months of the kickoff.

Eric Evans discussed the San Francisco Public Utility Commission's (SFPUC) Bay Division Pipeline # 5 Project. The project is part of the SFPUC's \$4.6 Billion Water System Improvement Program (WSIP) to seismically retrofit the Hetch Hetchy water transmission system. Eric talked about the western pit of the project located in Menlo Park that will cross the Bay.

Kurt Vincelette discussed another project part of the SFPUC WSIP. This project involves the Bay Division Pipelines # 3 and 4 crossing of the Hayward Fault. The pipelines will be seismically retrofitted to accommodate up to a six foot offset. Part of the design to accommodate this offset, is a seismic expansion ball joint that will be housed in an underground vault.

Next Meeting:

The next general meeting is scheduled for Tuesday, April 19, 2011. The presentation topic is on Understanding Pipe Standard Specifications and Application by Xiangquan Li (XL) of HDR Engineers. Please call Roberts McMullin at 510-287-1296 or email rmcmulli@ebmud.com for additional information on this month's meeting minutes.

