



**MEETING MINUTES**  
**August 17, 2010**

**Attendees:**

Amy Hernandez	CCCSD	ahernandez@centralsan.org
Bill Chavez	SRCSO	chavezb@sacsewer.com
Bob Allen	CDM	allenrob@cdm.com
Brian Chan	Foster City	bchan@fostercity.org
Cindy Preuss	Harris & Associates	cpreuss@harris-assoc.com
Craig Camp	Jacobs Associates	camp@jacobsf.com
Deanna Tanner	Brown & Caldwell	dtanner@brwncald.com
Dru Nielson	GeoEngineers, Inc.	dnielson@geoengineers.com
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Eric Evans	RMC Water	eevans@rmcwater.com
Eirik Zalkin	Brown & Caldwell	ezalkin@brwncald.com
Jimmy Dang	Kennedy Jenks	jimmydang@kennedyjenks.com
Mark Wenslawski	CCCSD	mwenslawski@centralsan.org
Michael Dumitrache	NW Pipe Company	mdumitrache@nwpipe.com
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Pat Hamilton	ACIPCO	phamilton@acipco.com
Roberts McMullin	URS Corporation	rob_mcmullin@urscorp.com
Rolf Ohlemutz	VSFCD	rohlemutz@vsfcd.com
Rosemary Smud	ACIPCO	rsmud@acipco.com
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Tope Olaniyan	WBA	dolaniyan@yahoo.com
Tracie Sakakihara	HMM	tracie.sakakihara@hatchmott.com

**Presentation:** **Guided Pipe Ramming using Pilot Tubes** by Craig Camp of Jacobs Associates.

The presentation covered:

1. Introduction and overview
2. Benefits and applications
3. Case studies

***Highlights from the presentation include:***

1. Standard ramming includes the following:
  - a. 4" through 147" casings

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Secretary, Nor Cal PUG

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- b. 118", 122", 138" and 137" have been successfully rammed
  - c. Eliminates slump or rise
  - d. Tools configure to a range of casing diameters
2. Routine pipe ramming involves pipe diameters 12" through 36". Pipe diameters 36" through 80" are challenging and 80" through 144" are considered advanced applications, which would require extensive analysis.
3. Drill Stem Recovery includes:
  - a. Rammer fitted with a special sleeve
  - b. Drill stem welded to back of sleeve
  - c. Percussion frees stuck drill stem
  - d. Push through or pull out
4. Pipe Removal / Bore Salvage includes:
  - a. Rammer attached to product pipe
  - b. Percussion removes pipe from bore
  - c. Salvage job and bore again
5. Guided Boring Machine (GBM) for N values less than or equal to 50 (40 is a good #)
6. Pipe ramming uses compressed air hammers to ram pipe through soil.
7. Pipe jacking pushes or jacks pipe through soil.
8. TT Technologies offers sample specifications their website at: [www.tttechnologies.com](http://www.tttechnologies.com).
9. For the complete presentation, visit [www.norcalpug.com](http://www.norcalpug.com).

**Handouts:** No handouts were provided.

Thank you Craig for an excellent presentation!

**General:**

**July 20, 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 will be hosting the 19<sup>th</sup> Annual Sharing Technologies Seminar at Hs. Lordships in Berkeley on Thursday, February 17, 2011. The keynote speaker has been selected as Dr. Samuel Ariaratnam from Arizona State University.

**SSC Webinars:** SSC continues to present monthly lunch & learns, webinars, and events covering boring, drilling, and vacuum excavation applications. See [www.sscboring.com/education](http://www.sscboring.com/education) for more information. The upcoming events include:

- Webinar: Large Diameter Case Studies – **September 9, 2010**
- Webinar: Pipe Ramming and Bursting – **November 4, 2010**
- Lunch and Learn: Methods and Alternatives for Boring – **December 2, 2010**

**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](http://www.uimonline.com/index/webinars). See below for upcoming webinars:

- Hands Off Sewer Flow Monitoring – **September 14, 2010**
- Geographic Information Systems – **December 1, 2010**

**Trenchless Technologies Webinars:** The Trenchless Technologies website hosts on-line webinars related to the trenchless industry. For more information, visit their website at: <http://www.trenchlessonline.com/index/webinars>. See below for upcoming webinars:

- Do-it-yourself Trenchless Solutions – **August 26, 2010**
- Pipe Rehabilitation – **September 1, 2010**
- Guided Boring Systems – **November 1, 2010**
- Grouting – **December 1, 2010**

**Trenchless Technologies:** Trenchless Technologies is asking for Projects of the Year nominations. For more information, visit <http://trenchlessonline.com/index/projectyear>.

**WESTT No-Dig Conference & Exhibition:** The 2010 WESTT Do-Dig Conference & Exhibition will be held in Phoenix, Arizona during October 25 – 26, 2010. PUG will hold a raffle to randomly select two lucky winners to attend the conference. More information to follow in a future email.

**Water Environment Federation:** Upcoming WEF Specialty conferences can be found on the website: <http://www.wef.org/Conferences>. See below for upcoming events:

- WEFTEC 2010 in New Orleans – **October 2 – 6, 2010**
- Collection Systems 2011 – Rehab or Roulette – **June 12 – 15, 2011**

**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](http://www.wef.org) for more information.

**NASTT No-Dig Show:** The 2011 NASTT 20<sup>th</sup> 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...

**Colorado School of Mines:** Colorado School of Mines is offering a tunneling short course on Breakthroughs in Tunneling during September 22 – 24, 2010.

**Underground Imaging Technologies:** UIT purchased by Caterpillar. UIT produces advanced 3D subsurface mapping.

**CTAM:** Certification of Training in Asset Management (CTAM) is offering courses. CTAM registration fees are \$345. Visit [www.uimonline.com/index/ctam](http://www.uimonline.com/index/ctam) for more information.

**News:** President Obama has appointed CEO of Vermeer Corporation Mary Vermeer Andringa to the President's Export Council. Vermeer Corporation is an international organization that manufactures trenchless machinery such as HDD rigs.

### **Projects Discussions:**

Jimmy Dang of Kennedy Jenks discussed a project that involved a pipeline highway crossing.

Rolf Ohlemutz of VSFCD conducted a group discussion of desired compaction required for pipe backfill.

Rosemary Smud of ACIPCO discussed Caltrans permit required for pipeline roadway crossings.

**Next Meeting:** The next general meeting is scheduled for Tuesday, November 16, 2010. The presentation topic is on Jensen Precast Wastewater Pumping Systems and Precast Concrete Vaults by Charles Moses of Jensen Precast. Please call Roberts McMullin at 510-874-3102 or email [rob\\_mcmullin@urscorp.com](mailto:rob_mcmullin@urscorp.com) for additional information on this month's meeting minutes.