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.....a dialogue for California's water conservation community

Sponsored by the California Urban Water Conservation Council

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This month....

- **Renaming the Newsletter**
You can't miss it (see above)...but "The Toilet Paper" survives!
- **Sub-Metering Study**
Sub-metering water use within a mobile home park
- **East Bay MUD Residential End-Use Study**
The second of three comprehensive studies of residential water use
- **New Flush Performance Standard**
A work still in process.
- **Interview with Wendy Corpening - a pioneer in our field**
The recent passing of Wendy Corpening makes this interview particularly poignant.
- **ULF Toilets Certified for the Los Angeles Program**
Another 21 toilets certified as meeting the Los Angeles SPS, bringing the total to 25!
- **People in Industry**
A few California folks are "in the news."

Full Details

1. Re-Naming "The Toilet Paper"

The Program Committee of the CUWCC has selected "The WaterLogue" as the new name for this publication. Many thanks to Danny Gleiberman of Falcon Waterfree Technologies and to David Mitchell of MCubed for coming up with the winning moniker....a mystery prize awaits you, gentlemen! And continued thanks to Linden Skjeie for her original naming of the "Toilet Paper" which we are keeping for the ULFT news section.

WaterLogue will continue to cover the topic of toilets but many of you have expressed interest in other topics as well. So, beginning with this issue, we will start expanding our coverage.

2. Sub-Metering Study

Aquacraft Inc. of Boulder CO reports that they have just completed a study of the impacts of water sub-metering in two Las Vegas mobile home parks. Contact Peter Mayer for more details at:

mayer@aquacraft.com

3. East Bay Municipal Utility District's Residential End-Use Study

EBMUD has begun a study on the end uses of water and the savings generated through the retrofitting of water saving devices at 35 single-family homes. This study, partially funded by a \$100,000 EPA grant, is the second of three single-family studies. The first study site was Seattle and the third study site will be Tampa, Florida. The results of the Seattle study are covered in detail in the March issue of the AWWA Journal (page 58). An executive summary of the article can be found at:

<http://www.awwa.org/journal/j301es2.htm> (*link no longer active – no substitute*)

The EBMUD study involves the use of dataloggers, placed at the water meter, to analyze the amount of water used for various end uses. This study will also monitor the hot water use at 10 of the 35 homes.

Toilets selected for the study include the Caroma (dual-flush), Niagara Flapperless (tipping bucket), and the St. Thomas 4-liter (1.0 gpf) pressure-assist unit. Clothes washers selected for the study include the Fisher-Paykel (New Zealand), Fridgidaire, and Whirlpool. The study will involve a survey of the participants to determine,

among other things, their opinion of the water saving products. A final report is expected by June 2002.

For further information on the EBMUD study, contact Dick Bennett at:

dbennett@ebmud.com

4. Energy-Water Project at EBMUD

Oakland Housing Authority was awarded the East Bay Municipal Utility District Water Conservation Project Award for 2000 for a job designed and implemented by a performance contractor:

<http://www.contractormag.com/articles/0301/publichousing.asp>
(link no longer active – no substitute)



1. New Flush Performance Standard

At the time of our last newsletter, the proposed ASME/ANSI flush performance standard was being balloted among the members of the team that worked on its development. As anticipated, it failed to receive an approval from the members with concerns related to both technical and non-technical (editorial) issues. Comments and objections will be addressed over the next few weeks, after which a revised proposal may be offered up for consideration by the full project team. Progress toward an revised national standard that is acceptable to a majority of members will be covered more fully in the next newsletter issue.

2. Interview with Wendy Corpening

We were saddened to learn of the recent passing of Wendy Corpening, an individual whose aggressive spirit in the name of water conservation is remembered by many. Just a couple of months ago, I asked Wendy to provide me with a "history" of just what stimulated her to become involved in water conservation and, specifically, in her efforts emphasizing water-efficient toilets.

Here is Wendy's response:

"I first got involved with water conservation in 1980 when I discovered a strangely shaped toilet sitting in a plumbing store in Murphys, California. I thought it was some type of sculpture or eastern device similar to a hookah, but it was a Swedish toilet! I called the friend who owned this store and, knowing my background in sales and marketing, he suggested I try selling this Swedish toilet that he said saved water. Of course, it meant nothing to me that a toilet saved water even though I'd thought conservation was a good idea no matter what form it took.

"So I took him up on his offer and tried to sell this cookie jar-looking fixture. Plumbers weren't interested (looks too weird), fancy bath showrooms weren't interested (looks too weird) and homeowners and builders weren't interested (much the same reason). When I realized that the toilet wouldn't sell on its appearance alone, I decided to focus on the fact that it used a lot less water than our own toilets did. I had done some investigating and discovered that American toilets used between 3.5 and 7 gallons of water (except for the old pull chain types which could flush on about 2 gallons).

"The big question was: Did anyone CARE if this toilet saved water? And if they did, where and who were these people and why would they care about saving water? My first thought was that surely there were parts of the country where water was an issue, and it didn't take a rocket scientist to determine about how much water an urban area could save if toilets were replaced.

"Most plumbers weren't interested in saving water, so I started calling water agencies in places where I had discovered water was a problem. Word about this strange water-saving toilet started to spread slowly and one morning I received a call from a developer in drought-plagued Goleta who was interested in installing these toilets into a planned subdivision. He asked me to come and speak to the city council about the toilet. I did and as a result, they allowed him to develop his subdivision provided that he install this water-saving toilet in the homes.

"It was then clear that this product could be a major player in conservation programs, particularly in areas with water shortages. Plumbers began to get interested as they saw a potential market, but they wouldn't touch the product without its being "approved". So the long, often frustrating, always controversial process of amending the plumbing standard in the U.S. began.

"It was 1981 and my first trip to Washington D.C. to attend an ANSI standards committee meeting was very memorable. I was the only female present. Most of the men there were representing the major and minor toilet manufacturers. During that first meeting, I submitted my proposal to adopt new language in the existing standard that would allow the inclusion of the Swedish type of water closet, with its maximum flush volume of 6 liters. In response, one long-time member of the committee held up and waved a copy of his old 1937 (I believe it was) standard. His comment was, "This

standard has been good enough for a lot of years and it's good enough now" ...or something to that effect.

"During one particularly heated meeting, we discussed in great detail the various characteristics of potential testing materials...many of which were sitting on the conference table. Canned tomatoes, cigarette butts, dog food, chewing tobacco, sanitary napkins and ping pong balls, were discussed, rejected and perhaps four meetings and two years later, discussed again. The opposition to the Swedish technology was strong. Early in the process I made a proposal which stated: "Whatever performance tests and protocols are included in the revised standard must be met by **all** toilets and not just the 6-liter toilets". I knew the Swedish type technology worked better than many toilets flushing with two or three times as much water and was confident that the 6-liter toilet would lead the way in performance."

Thank you, Wendy, for your passion for water conservation. We will miss your friendship, support, and camaraderie.

3. New ULF Toilets Certified Under the Los Angeles SPS

In our last newsletter, we noted that four toilet fixtures had met the requirements of the Los Angeles Supplementary Purchase Specification. In just the past 45 days, another 21 toilet fixtures have been tested and found to comply, bringing the total to 25 fixtures under eight brand names. This far exceeds the original expectations of Tom Gackstetter and indicates that manufacturers can meet these requirements and are interested in the water conservation market. In addition, a total of 14 flappers (from seven manufacturers) have been certified as meeting the durability requirements of the SPS.

A complete listing of the qualifying fixtures and flappers is included at the end of this newsletter. Expect more fixtures from several other manufacturers to meet SPS requirements in the next several months.

4. Flushed With Pride

Some artists create on canvas. Xenia Zampolli prefers the wet porcelain of just-molded toilets and sinks. These she embosses, embellishes, carves, signs and numbers; when they dry, she paints, glazes and fires them in a kiln for eight hours.

To view the entire article, go to:

<http://washingtonpost.com/wp-dyn/articles/A28110-2000Sep27.html>

5. *People in the Industry*

- Jeffrey Goldberg has left WP Industries - Western Pottery to pursue other interests in British Columbia. Most of you will remember Jeffrey as the exhibitor at Conser99 with the great bow ties!
- Sam Young has joined WP Industries - Western Pottery after a long career at Mansfield Plumbing here on the west coast. Sam, along with Darryl Wint, will be representing Western to the water conservation community in California from their new offices in Norwalk.
- Mega Western Sales, Gardena, is again representing Briggs in southern California. As before, Bob Lewis is the person to contact for Briggs products and customer service.
- Paul Burrows has returned to Familian-Ferguson and is managing their San Jose distribution operation. Paul was instrumental in the success of a number of toilet distribution programs in southern California, where he and his organization provided product and conservation program support.

Upcoming Issues: Look for...

- A special report on waterless urinals
- Another interview with a water conservation "pioneer" and specialist
- Links to new products
- Some connections between water and energy savings
- and much, much more

SPS-Certified ULF Toilets

<u>Manufacturer</u>	<u>Appv'd</u>	<u>Model</u>	<u>Components</u>
Mansfield	09/29/00	130-160	(130 bowl/160 tank)
Niagara	10/16/00 02/02/01	N2216 Turbo Toilet 1.6	(N2216B bowl/N2216T tank, flapperless) (N2220 bowl/N2220 tank/Ultra Blue flapper)
Legend	12/04/00 01/16/01	Eco-Star Eco-Star	(9001 bowl/9002 tank/Bullseye 502 flapper) (9001 bowl/9002 tank/WDI B6025 flapper)
Sanitarios Azteca	2/20/01 2/20/01 2/20/01	Vienna EL II Vienna H Vienna II	(Vienna EL II bowl/T410U tank/Ultra Blue flapper) (Vienna H bowl/T410U tank/Ultra Blue Flapper) (Vienna II bowl/T410U tank/Ultra Blue Flapper)
TOTO USA	02/14/01 02/14/01 02/14/01 02/14/01	CST703 CST704 CST713 CST714	(Rnd – C703 bowl/ST703 tank/Ultra Blue flapper) (EIng – C704 bowl/ST704 tank/Ultra Blue flapper) (Rnd – C713 bowl/ST713 tank/Ultra Blue flapper) (EIng – C714 bowl/ST714 tank/Ultra Blue flapper)
Briggs	3/09/01 3/09/01 3/09/01 3/09/01 3/09/01 3/09/01	Abingdon Abingdon Abingdon Altima Altima Altima	(Round-4875 bowl/4440 tank/Runner Q012441A flapper) (EIng-4877 bowl/4440 tank/Runner Q012441A flapper) (ADA-4878 bowl/4440 tank/Runner Q012441A flapper) (Round-4320 bowl/4430 tank/Runner Q012441A flapper) (EIng-4325 bowl/4430 tank/Runner Q012441A flapper) (ADA-4328 bowl/4430 tank/Runner Q012441A flapper)
ProFlo	3/09/01 3/09/01 3/09/01 3/09/01 3/09/01 3/09/01	Abingdon Abingdon Abingdon Altima Altima Altima	(Round-PF2200 bowl/PF3212 tank/Runner Q012441A flapper) (EIng-PF2201 bowl/PF3212 tank/Runner Q012441A flapper) (ADA-PF2203 bowl/PF3212 tank/Runner Q012441A flapper) (Round-PF1200 bowl/PF3112 tank/Runner Q012441A flapper) (EIng-PF1201 bowl/PF3112 tank/Runner Q012441A flapper) (ADA-PF1203 bowl/PF3112 tank/Runner Q012441A flapper)
Vitromex/	see note	Malibu	Note: This model met the requirements of the SPS but has not been certified and is not available in the United States at this time.

St. Thos Creations

SPS-Certified Flappers

<u>Manufacturer</u>	<u>Flapper Ident.</u>	<u>Part No.</u>	<u>Univ. Product Code</u>
Coast Foundry and Manufacturing Co.	Ultra Blue	---	---
Fluidmaster, Inc.	Bullseye	501	0-39961-00500-7
Fluidmaster, Inc.	Bullseye Super	502	0-39961-00501-4
Hoov-R-Line / Moen	Hoov-R-Line Clear	192607	---
		192608	---
		198008	---
		198010	---
Mansfield Plumbing Products	Red	---	---
Rectorseal	Frugal Flush 1.6	---	
WDI Plumbing Inc.	---	B6021	---
		B6025	---
		B6050	---
		B6060	---
Runner Corporation	---	Q012441A	---