



Well Connected®



A Publication of the Water Systems Council

WSC AND NGWA COOPERATE ON NEW TRAINING PROGRAM

— BASIC PUMPS SECTION II —

Chapter 5
**Submersible Pump
Operation and Installation**

*An industry first
WSC training event*
Sponsored by
NGWA and WSC
At NGWA EXPO
Las Vegas Convention Center
December 13, 2004
Time: 8:00 am - 12:00 pm
Room (see schedule of
events)

*Principal of operation...
Types of motors...
Power requirements...
Installation techniques and procedures...*

11th Edition

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WSC created and presented an exciting new training session for water well contractors and pump installers at the 2004 Ground Water Expo December 13 in Las Vegas. This is the first in a series of courses developed in cooperation with the National Ground Water Association (NGWA).

The WSC workshop focused on submersible pumps, which represent about 70 percent of all well pumps currently in use. WSC Member Bo Andersson, of Danfoss Flomatic Industries in Glens Falls, NY, was the lead developer of the two-hour PowerPoint® graphics presentation on submersible pump applications and installations, based on information in WSC's *Water Systems Handbook*.

The handbook is widely accepted as “the” primer for well installation. The presentation at the Expo focused on information currently found in Chapter 5 of the handbook. WSC is engaged in a thorough revision and updating of the handbook that will be completed in 2005.

At the Expo training session, Mr. Andersson received valuable assistance from four experts in the field: Jack Stubbs, a trainer and WSC consultant based in Colonie, NY; Bill Corey, Training Specialist/Senior Customer Service Representative in the Pump Division at Pentair Water Group, Delavan, WI; Mike Keen, Field Service Engineer at Franklin Electric, Lakeland, FL; and Carl Wood, Regional Sales Manager at Franklin Pumps, Inc., Ocala, FL. WSC greatly appreciates their help with this important new project.

“We saw a need to increase the training available to contractors,” said WSC Executive Director Kathleen Stanley. “Thanks to Bo and his team, we were able to offer an excellent first workshop at the Expo that was very well received.” More than 175 contractors and pump installers attended the first training session.

WSC is committed to presenting the submersible pumps session again. Similar graphics presentations are planned on water tank sizing and constant pressure. When completed, WSC will make copies of the presentations available to state water well associations, WSC members, community colleges, etc., to train water well contractors.



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<p>Attend the WSC SPRING 2005 MEMBERS MEETING March 1-4 Washington, DC</p>	

Guest Columnist:**Without Water,
Desperation
Runs Deep**

By Donna Britt
The Washington Post

"Mom, we may need to stay at your place tonight. The well ran dry."

My mother's incredulity upon hearing those words couldn't match my own at having said them. It's the kind of statement no 21st-century suburban wife and mother expects to utter, any more than she expects to say, "I just finished the milkin' and Bessie's hardly producin'," or, "Can't talk now, there's more wool to spin."

Yet there I was last week, making arrangements for what I'd thought was a rural, pre-World War I occurrence. Ten years ago, when my husband and I were prospective buyers charmed by the 50-year-old Cape Cod that's now our home, we blinked at the news that the house was "on well water."

How quaint, I thought. The lush acreage surrounding the house meant that it and others in the subdivision were too far from a water main to tap into it. Hence, the well.

"But the water tastes great," everyone said, and it did. No biggie, we figured.

That was before we understood that when you're "on" a well, toilets don't flush during power outages — which aren't uncommon in semi-wooded areas where large branches routinely tumble onto slim wires. That was before a neighbor confessed that she'd spent \$10,000 putting in her new well.

That was before our well ran dry.

One minute, we had water. We'd turn a knob or twist a handle, and presto: Wetness leaped out of faucets; sparkling streams danced into tubs and sinks and the washing machine.

The next minute? The gush became a gulp, then a gurgle, then a gasp. Then... nothing.

Losing electricity I can deal with. You find the flashlights, light some candles, resign yourself to missing TV's "Lost."

But life without water? Without the substance that makes most cooking, housecleaning, bathing and plant-watering possible? Without toilets that flush, unless you find, fill and pour buckets of water into a contraption that most of us use thousands of times without considering?

Suddenly, water became the world's most precious substance — which it already was, but I was too busy to notice. Suddenly, a friend's offhand comment — "I gotta go and do some laundry" — evoked an envy as stinging as if she had said, "Gotta run — Denzel's waiting outside in the Mercedes he bought me."

Suddenly, thoughts of water consumed me. Health experts have said we don't drink enough. In every other way, we can't get enough.

Those who can afford seafront homes — and some who can't — buy them in hurricane country and pray for the best. We purchase overpriced mini-manses on

teensy plots because they have fancy swimming pools or sit beside man-made lakes. It isn't enough that about 65 percent of our bodies are water. We buy poles, lines and bait to fish in the stuff, and canoes, kayaks, surfboards and the occasional yacht to ride on it.

When we need healing or relaxation, we repair to sandy places to plop our careworn bodies beside oceans whose rhythmic roar drowns out our worrisome whispers, and whose unfathomable hugeness gathers us up, washes us clean.

Bereft of water, I considered how accustomed I'd become to what is for many people a luxury. In a world in which more than a billion people lack safe drinking water, it was "stunning" news last summer when the United Nations reported that 52 percent of the Earth's population finally has running water at home. A Salvadoran co-worker, hearing of my "plight," snorted. Back home, she said, her family hoards water because the nation rations it. Folks get running water for two hours daily.

"I'm so spoiled," I admitted.

"The entire United States is spoiled," she shrugged.

Damn right. And I wanted my water back.

The plumber who said that our water stoppage was the result of a dry well added, "You'll need a well-drilling company to make sure." A well-drilling company? Where was I, Southfork? This being 2004, we discovered, there aren't many well-drilling companies — and only a couple work in hoity-toity Montgomery County.

One that does sent a technician who peered down into the underground well pit and informed us that he'd have to drill another well elsewhere on the property — to the tune of "at least \$5,000."

The second company to arrive was Easterday, which has worked in these here parts — that's well-speak — for decades. Their technician listened to our description of the suddenness of the stoppage and the plumber's numerous tests. He lowered himself into the well pit and poked around.

Emerging, he said, "I don't think your well is dry." One new part — to the tune of \$278.50 — and voilà:

We have water. Our toilets flush. My husband impresses dinner companions with his encyclopedic knowledge of shifting water tables and average Montgomery County well depths. For three whole days after discovering the well hadn't run dry, I was giddy with happiness.

Now — although I'm consumed with thoughts of holiday shopping and why my cell phone only rings when I'm negotiating a turn, carrying groceries or paying a cashier — this modern girl hasn't forgotten an age-old truth:

You really don't appreciate your water till your well runs dry.

NEWS FROM THE FALL 2004 MEMBERS MEETING

WSC 2005 Officers Elected

WSC members elected the following officers at the Fall 2004 Members Meeting in Florida.

Officers

President

Jim Dunbar,
Franklin Pump Systems

1st Vice President

Dennis Coggins,
Goulds Pumps/
ITT Industries

2nd Vice President

Mike Easterley,
Grundfos Pumps

Secretary/Treasurer

Kathy Berrill,
A.O. Smith Water Products

Immediate Past

President (2004)

Tom Strupp,
Pentair Water

Past President (2003)

DeLancey Davis,
Flexcon Industries

Distributor Board Member

Tom Sterzing,
Austin Pump & Supply Co.

Executive Director (ex-Officio)

Kathleen Stanley

New Partnership Highlight of Fall Meeting

WSC unveiled its new partnership with Underwriters Laboratories (UL) collaborating on water testing for well owners, at the best attended Fall Members Meeting to date. It was held November 10-12, 2004 in San Diego, CA.

Laura Snell, UL Program Coordinator for Environmental Health Services, said UL has added WSC wellcare® Hotline information to UL well water test kits. In turn, callers to WSC's wellcare® Hotline receive a 10 percent discount on a UL well water test kit. She said WSC and UL are looking for more opportunities to work together on consumer water testing and well safety programs.

More than 60 WSC members and guests attended the Fall 2004 Members Meeting at the Coronado Island Marriott. They included Chief of Staff Allen Barnes who spoke to the group, and Rita Wayco; both from the U.S. Environmental Protection Agency Region IV office in Atlanta.

Committees Report at Fall Meeting

Four hard-working WSC member committees shared their progress at the Fall Meeting. Members can get more information about any of the committee work below from Kathryn Auth, Director of Member Services, 202-625-4387.

Statistical Reports Committee Chair: Jim Dunbar

The Tank Shipment Report has been a big success. A 12-month, state-by-state report will be issued for 2004. Beginning in 2005, the state-by-state report will be a semi-annual report. The reports are the product of the WSC statistical reporting program.

Tank Committee Chair: George Simas

The ANSI process for the PST-2000 Tank Standard is now underway. The committee hopes to receive ANSI approval in 2005.

Technical Committee Chair: DeLancey Davis

The committee approved the new "Constant Pressure" chapter for the *Water Systems Handbook*, which will be printed as an addendum to the current handbook. The committee also approved a plan to update the entire handbook, creating the 12th edition by early fall 2005.

Government Affairs Committee Chair: DeLancey Davis

The committee and staff are scheduling 2005 member visits to Capitol Hill for March 1 and 2, during the WSC Spring 2005 Members Meeting. They encourage WSC members to meet with their congressman or senator. Call WSC to set up an appointment.

WSC 2005 Board Of Directors

WSC members elected the following directors at the Fall 2004 Members Meeting in Florida.

Stephen Anderson Merrill Manufacturing Storm Lake, IA	Emery Davis Campbell Manufacturing Bechtelsville, PA	John Surinak Maass Midwest Manufacturing Huntley, IL
Bo Andersson Danfoss Flomatic Industries Glens Falls, NY	Jim Dunbar Franklin Pump Systems Little Rock, AR	Joe Lane Amtrol, Inc. West Warwick, RI
Dennis Coggins Goulds Pumps/ITT Industries Seneca Falls, NY	Mike Easterley Grundfos Pumps Olathe, KS	Tom Sterzing Austin Pump & Supply Co. Austin, TX
DeLancey Davis Flexcon Industries Randolph, MA	Kathy Berrill A.O. Smith Water Products Stratford, Ontario	Tom Strupp Pentair Water Delavan, WI

wellcare® Hotline Calls Up 33 Percent by Year's End

Calls to the wellcare® Hotline rose by nearly one-third last year, with inquiries from as far as Canada, Mexico and India, reports the WSC Hotline team, Coordinator Dawn Greene and Specialist Charlene Greenstreet.

Callers in October, November and December inquired about flooding and water contamination in the wake of major hurricanes, the best types of piping for their water systems and possible contaminants, including radon and arsenic, Ms. Greene said. The wellcare® Hotline also received more than 30 calls from mortgage companies about FHA/HUD standards for well testing.

wellcare® Hotline
888-395-1033 or
click here

The total number of calls for 2004 year was 3,585, up 1,306 from the 2003 total of 2,279 queries.

The majority of calls continue to come in from the U.S. EPA's hotline, which connects directly to the wellcare® Hotline.

Nebraska Gov. Johanns Named Agriculture Secretary

The post-election reshuffling of President George W. Bush's cabinet brings Nebraska Governor Mike Johanns to Washington as the next Secretary of Agriculture. If confirmed by the U.S. Senate, he will succeed Ann M. Veneman, who resigned. The Secretary of Agriculture oversees programs that fund rural public and private water systems, as well as the nation's farm and food programs and the U.S. Forest Service.

Governor Johanns, raised on a dairy farm in Iowa, became a lawyer and served in county and city government before being elected mayor of Lincoln, NE in 1991. He won the governor's office in 1998 and in 2002 became the first Republican to win re-election to the post in more than 40 years.



WASHINGTON UPDATE

FYI...

\$500: Amount saved each year by drinking tap water instead of bottled water.

\$24,543: Amount earned if that money were invested in a savings account at 8 percent interest for 20 years.

© October 2004 issue of Health magazine.

wellcare® Workshops Held in NY, NM and RI

WSC wellcare® workshops continue to receive excellent response from well professionals, sanitarians and local and state officials. Each workshop features state-related reports along with general information on water rights laws, the basics of well siting, construction and maintenance, and water quality treatment and testing.

In New York, 114 professionals attended a wellcare® workshop September 30 in Latham, co-sponsored by the Empire State Water Well Drillers Association. The workshop featured a special report on the NY State Water Well Program from geologist Dan Kendall. Attendees also received 5.5 continuing education credits toward NGWA voluntary certification.

In New Mexico, the New Mexico Ground Water Association co-sponsored a wellcare® workshop for 44 attendees October 20 in Santa Fe. Alan Eades, the association president, reported on activities impacting ground water usage in the state, while Susan Seacrest, President of The Ground Water Foundation, reported on her group's Groundwater Guardian protection program in New Mexico communities.

In Rhode Island, the New England Region Water Quality Program co-sponsored a workshop for 38 attendees October 28 in Warwick. Jane Downing, of the U.S. EPA's Drinking Water Program, outlined the agency's New England Private Well Initiative, and Alyson McCann, Water Quality Program Coordinator for the University of Rhode Island Cooperative Extension, reported on her agency's educational outreach to private well owners.

WSC is now scheduling wellcare® workshops for 2005. For more information about a workshop in your state, contact Kathleen Stanley, 202-625-4387.

California To Charge for Water Use

Coming soon to California: Residents will pay to drink, bathe or water the lawn. Governor Arnold Schwarzenegger last fall signed a law to require all cities and towns in the state to install water meters in every residence and bill customers for the volume they consume. The new water bills come after years of drought throughout the state. The measure is expected to cut usage by about 20 percent. "When you pay for every drop you use, you're more likely to conserve water," said Ronnie Cohen, Senior Policy Analyst for the National Resources Defense Council (NRDC), which supports the law.

South Atlantic Jubilee Celebrates 50th Anniversary

The water well industry's most venerable gathering – the South Atlantic Well Drillers Jubilee – marks 50 years with special celebrations July 30 to August 2, 2005 in Myrtle Beach, SC. Plans are underway for historical exhibits on industry products and technologies, and on the families who have been leaders in the region's industry. For more information, call the Jubilee office, 540-740-3329.

In related news, WSC is proud to note that 2005 Jubilee, the newsletter of the Jubilee, reprinted an article from our newsletter, *Well Connected*, about our study of state restrictions on ground water withdrawals.

WSC Anticipates Children's Water Festival in 2006



Planning is underway for WSC's **Children's Water Festival**, for students from Maryland and Delaware, at Chesapeake College in Wye Mills, MD on March 23, 2006. Organizers meet the first Tuesday each month at the college. For more information, contact Dawn Greene 202-625-4387 or dawn.greene@watersystemscouncil.org.

Well Information Sheets Available on Multi-Media

WSC now offers its wellcare® information sheets on compact disc, as well as in print and on the website.

REMINDER: Member Services Available

Members receive exclusive information in the members-only section of the WSC website at www.watersystemscouncil.org. This includes Around the States, a summary of state legislative issues related to wells and drinking water, with legislative actions that impact the water well industry. It is published monthly.

If you need help logging on to the members-only section, send an email to memberservices@watersystemscouncil.org or call Kathryn Auth, 202-625-4387

To add to and/or change your membership listing in the WSC Membership Directory on the web, forward the new information to memberservices@watersystemscouncil.org

WSC Calendar

MARCH 2005

- WSC Spring 2005 Members Meeting, St. Regis Hotel, Washington, DC
- 1 - 2 Congressional Meetings
- 3 Committee Meetings, Member Meetings
- 4 Board of Directors Meeting

MAY 2005

- 19 WSC Board of Directors Meeting, Hyatt Regency, Reston, VA

AUGUST 2005

- 2 WSC Board of Directors Meeting,
South Atlantic Well Drillers Jubilee, Myrtle Beach, SC

NOVEMBER 2005

- WSC Fall 2005 Members Meeting, South Seas Resort, Captiva Island, FL
- 9 Golf Tournament
- 10 Committee Meetings, Member Meetings
- 11 Board of Directors Meeting

WSC MEMBER NEWS.....

Welcome New 2004 WSC Members

Distributor Member:

[Connecticut Winpump](#),
Waterbury, CT

Individual Members:

[Terrence Howard](#),
Castle Rock, CO

[Alva Watson](#),
Great Mills, MD

[Frances Burek](#), Troy, NY

Allied Interest Members:

[Arizona Water Well Association](#), Tempe, AZ
[Connecticut Water Well Association](#), Cheshire, CT
[New Mexico Ground Water Association](#), La Luz, NM
[Desert Pacific Marketing](#),
Las Vegas, NV

WSC Members... Send your news about personnel changes and other items of interest for publication in future issues of Well Connected® to the WSC National Programs Office, 1101 30th Street, N.W., Suite 500, Washington, DC 20007 or e-mail to: memberservices@watersystemscouncil.org



WSC NATIONAL PROGRAMS OFFICE
1101 30th Street, N.W.
Suite 500
Washington, DC 20007

Join Us in the Nation's Capital!

WSC Spring 2005 Members Meeting

March 1-4



ST. REGIS HOTEL, WASHINGTON, DC
Two blocks from the White House!



Thursday evening, enjoy a wonderful performance
of political satire cleverly set to music by
Washington's incomparable troupe,
THE CAPITOL STEPS!

Contact Kathryn Auth, WSC Director of Member Services, 202-625-4387 for more information.