

## We're in Africa now!

### Advent church installation is continent's first

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For the first time, a Living Waters for the World water purification system is in operation on the African continent. A nine-person team from Advent Presbyterian Church in the Memphis suburb of Cordova installed a system in mid-March at the national training center of the Presbyterian Church of Ghana.

It is expected to be the first of many. While in Ghana, the Advent team examined at least four potential sites in need of water treatment systems. Other church groups that have attended Clean Water U have indicated they plan systems in Kenya, Sudan, Madagascar and possibly other nations.

Previous LWW systems have all been in North and South America and in Asia.

Advent's team had a strong connection to the Ramseyer Training Center in the town of Abetifi, in the Kwahu District of south-central Ghana. The Rev. Robert Crumpton, a retired Presbyterian missionary who worships at Advent, had served in Ghana and spent time at the Ramseyer center. He was a member of a team from Advent that went to Ghana last year to survey the situation and develop a partnership.

The Presbyterian Church of Ghana suggested the Ramseyer center, and since virtually every minister in that church goes to the center sooner or later, the water system will have lots of visitors, Scruggs explained.

The team spent 12 days on the African trip, called the most successful of the numerous



**The king of Kwahu (in robe) cuts the ribbon for the Abetifi water system. Next to him (dark suit) is the moderator of the Ghana church's General Assembly, and next to him (with stole) is the Rev. Chris Scruggs of Advent.**

foreign mission trips in which the congregation has been involved. It provided health and hygiene training to a sizable group of school children as well as to 39 adults who will serve as trainers of others.

The Ramseyer Training Center has running water only once a week, he explained, and depends mostly on rain water collected in a cistern. The LWW system, the first clean water system in Kwahu, will serve some 300 people who use the center.

Upon completion, the system was dedicated to be people of Abetifi by the moderator of the Presbyterian Church of Ghana and the king of Kwahu. Seven

village chiefs and a host of other dignitaries attended.

The national newspaper of Ghana reported on the Abetifi water system, and included credit both to the Advent church and to the Synod of Living Waters.

Five of Advent nine on the team were trained at Clean Water U. Before leaving the country, the team invited the moderator and stated clerk of the Presbyterian Church of Ghana to send representatives to CWU training this fall.

Advent has had a mission to Ghana for over ten years. It operated a dialysis clinic in the capital city, Accra, until the government opened a dialysis center, and Advent then switched its mission to water purification.





Here's the March 8-12 class, Clean Water U number 6, at Camp Hopewell, Miss.



The seventh CWU class, April 19-23, had 47 students from 14 states.



# Two down, two more to go in CWU's biggest year yet

Half-way through its most ambitious year of instruction to date, Clean Water U conducted the first two of four sessions planned this year on March 8-12 and April 19-23.

The other two are scheduled September 6-10 and October 18-22.

The spring sessions were the sixth and seventh in the history of Living Waters for the World. The first two sessions were held in 2004, and three took place

in 2005.

The March CWU class had 37 students from ten states; the number included two officers of the Synod of the Peninsula of the National Presbyterian Church of Mexico.

The April session was one of the largest in history, 47 students from 14 different states. It was the first to include two new instructors, Mac Sterrett of Fort Defiance, Va., in CWU 101 and Joel Lewis

of Cordova, Tenn., in CWU 103.

The CWU 103 class in March was the first to teach the newly revised ROS board, which incorporates streamline procedures for water softening and reverse osmosis.

Four water treatment boards were constructed at the water training building: Two "standard" boards, one with softening only, and the fourth with softening and RO.

## Dates on LWW calendar

May 5 - 8 Presbyterian Men of New York meeting, NY,NY

June 15-21 General Assembly, Birmingham, AL

July 7-11 Presbyterian Women Triennium, Louisville, KY

August 1-4 Presbyterian Women AL-MS Gathering, Tuscaloosa, AL

August 1-6 Yucatan Network Trip

August 8-11 LWW Task Force Meetings

August 21 LWW Committee Meeting

September 6-10 Clean Water U

October 18-22 Clean Water U

October 25-27 Synod of the Peninsula meeting, Merida, Mexico

November 15-17 LWW Task Force Meetings

December 4 LWW Committee Meeting

## Volunteers bring needed advances in technology

It's a God thing.

Just when particular skills are needed to advance the work of Living Waters for the World, talented volunteers step forward.

That gift is evident yet again in the efforts of Pam Gunn of Washington, D.C., and Nick Villaume of Atlanta.

Pam is developing an on-line version of our Status of Projects database, which will allow the staff and network coordinators to keep our list of projects – past, current and future – up to date via an on-line interface.

In the years B.P. (Before Pam), these records were kept manually, requiring hours of work to keep updated and

guard against errors.

Pam plans to have this wonderful tool ready to go by July of this year.

Nick Villaume, who runs his own web site development company, has streamlined our web site, and set up a message board subdivided into several functional categories.

That enables LWW volunteers to have dialog with one another about their mission experiences and to share what they have learned.

Nick is also developing an online trip report form, which will allow teams to fill out post-trip reports much more efficiently and consistently, via the web site.

## System installation pace is a rapid one at the outset of year

The year 2006 has begun with a bang. In March alone our partners installed six units, bringing the total number to ten new systems already this year.

Thank you, our partners in Christ's service:

- FPC, Paris, TN in Mexico
- South Alabama Presbytery in Mexico
- FPC, Oxford, MS in Mexico
- FPC, Greenwood, MS in Mexico
- Covenant PC, Jackson, MS in Honduras
- Advent PC, Cordova, TN in Ghana
- FPC, King's City, MO in

Guatemala

- Shenandoah Presbytery, VA, in Guatemala
- Minnesota Valleys Presbytery in Guatemala
- FPC, Vicksburg, MS, in Mexico

Looking ahead, there are 20 churches – and one Rotary Club – actively planning education and installation trips for this year. This number does not include the many more whose projects are in early stages of development.

How amazed we are at the strong continuing interest and growth in this clean water ministry. Come jump in the water with us!

## Adult Bible study available

Are there members of your congregation who would like to know more about the world water situation ... more about what the Bible has to say about it ... more about what they might be able to do about it?

Living Waters for the World has just announced the publication of an adult study curriculum, *Streams of Living Water*, designed for Sunday

School or small group format: six sessions, each about one hour.

Provocative, educational, and inspirational, each session in the study series includes scripture, stories, questions for reflection, and suggestions for action.

Available now through our website (click on "Order Materials," then "Educational") for \$5.00.

## Moderator: 'New model' for mission seen in LWW

The Living Waters for the World model of mission is a challenge to the church, the president officer of the Presbyterian Church (U.S.A.) said.

"You are figuring out a new way of mission," Rick Ufford-Chase, moderator of the PCUSA General Assembly, told a gathering of Clean Water U alumni in February.

The Alumni Workshop weekend, the first-ever gathering of former CWU students, was held to gather input from graduates who have gone to the mission field.

"What you're doing to get people out of the pews and into the world is the right thing," Ufford-Chase said as keynote speaker on Saturday night.

"My conviction is that this is God fanning the embers of the flame of a new kind of church that's going to transform the world."

The church, he said, must expand on the LWW model and others like it to create a movement "to follow Jesus Christ into the world."

Some 40 CWU graduates took part in the weekend Feb. 10-12. They gave school faculty a laundry list of suggestions for ways to make instruction more helpful.



**GA Moderator Rick Ufford-Chase (second from left) talks with CWU alumni (from left) Donna Burnett of Hoover, Ala., Joanie Lukins of Danville, Ky., and Tom Ritter of Starkville, Miss.**

## Continuity of systems is task of new group

"Eighty percent of all systems still in use" is one of six goals for the next five years adopted by the Living Waters for the World Committee at its April 10 meeting.

To help make that happen, the committee formed anew Sustainability Steering Group to monitor, encourage and help our partners both in the US and internationally toward making this goal a reality.

Three goals of this Steering Group set out so far are:

- See that Covenant-based follow-up teams conduct proposed annual inspections of water treatment systems and evaluation of health and hygiene training.

- Evaluate existing installation locations according to their degree of use and ongoing educational services.

- Develop long-term support protocols for sites past the term of the Covenant agreement.

The Rev. Ed Hamlett of Albertville, Ala., was appointed moderator of the new group, expected to be one of LWW's most critical tasks in the coming years. Late last year John Gramling began this work of contacting existing sites. Other members serving include Ralph Young, Nancy Losure and Terry Coggins.

## Gulf Coast appeal stirs a quick response

"Friends, I have just returned from a week at the PDA camp in Pearlinton, MS," read the E-mail message to LWW from Maria Flynn of First Presbyterian Church in Mayfield, Ky.

"We used bottled water or boiled water, both of which are counter-productive either because of increased trash or use of energy funds. What can I do to get a water purification system set up at the camp?"

That appeal in late February set in motion a swift sequence of events which led a pair of LWW veterans to install a temporary purification system at the Presbyterian Disaster Assistance station set up in Pearlinton to serve volunteers helping out at the Gulf Coast town.

Two weeks from the day of the E-mail inquiry, clean water was flowing. It just happened that a purification system owned by First Presbyterian

of Oxford, Miss., had been installed earlier at another hurricane-struck site and was no longer needed.

And it just so happened that two retirees with vast experience in LWW installations lived a few hours away, Bob Friley in Vicksburg and Dr. A.M. (Bubba) Martin in Meridian. They had the system running so quickly that one observer mistook them for professional plumbers!

As often happens in emer-

gencies, the system wasn't needed for long because Pearlinton's public water supply was soon back to standard. But it lasted long enough for Ms. Flynn to fire off another E-mail:

"Friends, I'm speechless and fighting back tears. Thank you for your efforts. Bob and Bubba, may God continue to bless you richly and make your cup overflow. It's been said that God saves the best wine for last."



# FO, FOS, FORS — What's going on?

Better and simpler — the Design Team's work on improving our four different treatment systems has been intense.

Building on last year's major improvements to the standard treatment system — see our new Standard IOM Manual, March 2006, for details — three new processes greatly increase our ability to treat a wider spectrum of bad water conditions.

It's a modular system, interrelated in the addition or subtraction of capacity as needed.

As a result of work at the April Clean Water U session, and an upcoming work weekend, a new manual is being prepared just to cover the complexities of the system pictured here.

With development of the modular system, the old designations of "standard" board and "ROS" board are inadequate.

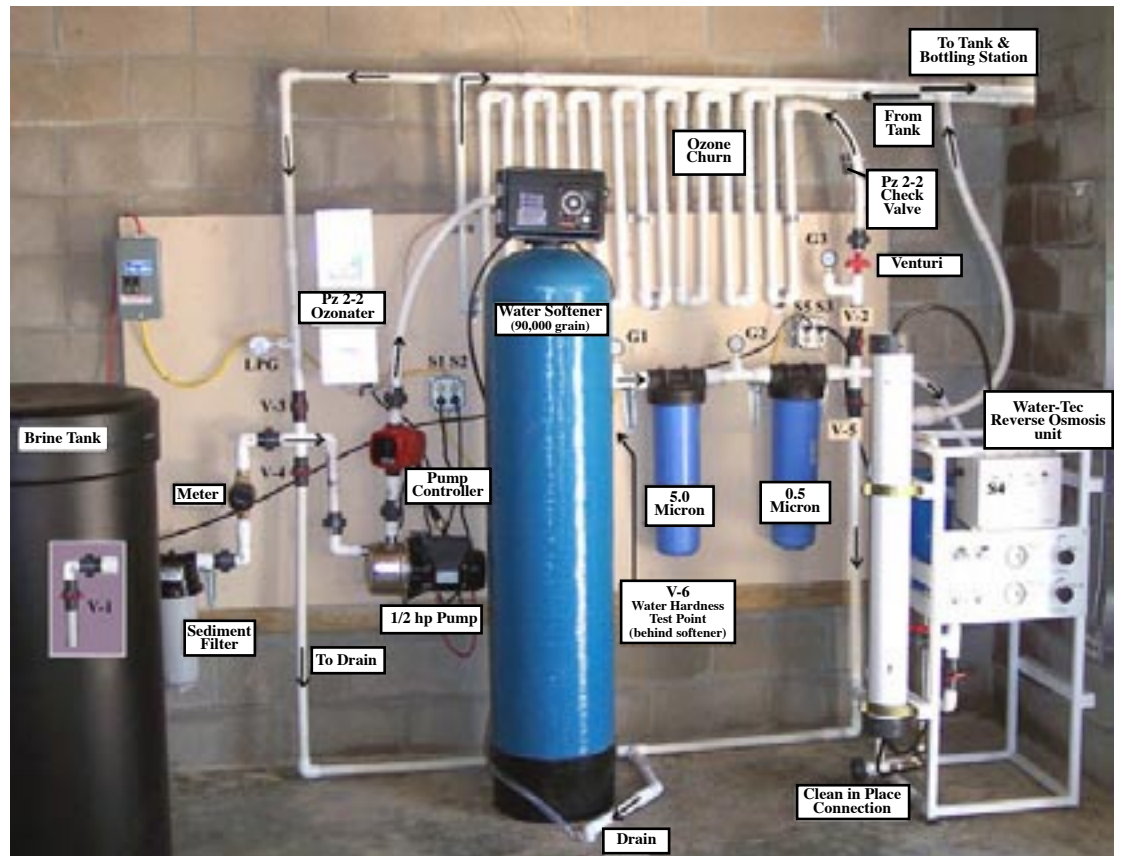
Four new acronyms help describe the available options:

- **FO** — the standard system with Filtration and Ozone for disinfection

- **FOS** — the standard system with Softening added

- **FOR** — the standard system with Reverse Osmosis (RO) added (Note: This system is expected to be rare, for in most situations softening will be required before reverse osmosis is necessary.)

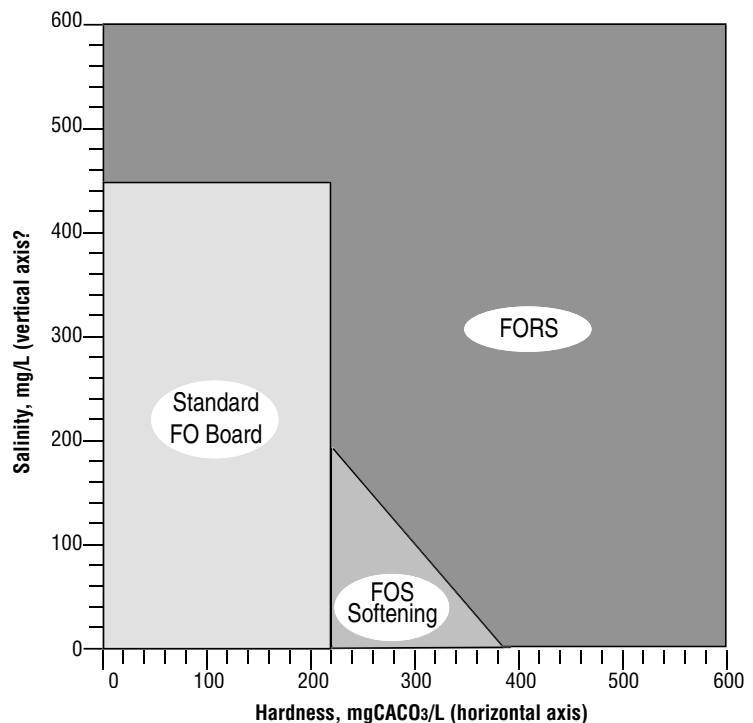
- **FORS** — the standard system with both Softening and RO added, as illustrated here.



This is the new FORS system, currently being taught at Clean Water U.

What combination of purification hardware will you need to install in a particular location? Essentially, it depends on the laboratory analysis of two qualities of water: hardness and total dissolved solids (TDS).

Remi van Compernelle, with editing help from Bill Williams, cooked up this chart, easily allowing anyone to interpret the Hardness and Salinity (as TDS) test results from Severn Trent Laboratories. What type system do you need? See below.



## USING LABORATORY RESULTS TO SELECT A TREATMENT SYSTEM

1. Find the hardness measurement from laboratory on horizontal axis and draw a vertical line from that point.
2. Find the laboratory's salinity (total dis-

solved solids) measurement on the vertical axis and draw a horizontal line from that point.

3. The area in which the two lines cross indicates the system that will be required to properly treat water with these characteristics.

# LWW receives \$1.25 million pledge to start endowment

No, that's not a misprint – it's true! A donor from southern Mississippi, who has asked to remain anonymous, has provided the lead gift to our \$5 million endowment campaign, and what a lead gift it is.

The pledge, which will be received over a five-year period, sends a strong signal to others about the importance of sustaining the Living Waters for the World mission for perpetuity, and providing much needed support as we continue to re-

spond to God's expanding call.

Appointments with other potential donors are scheduled, and we ask for your help in identifying individuals that may be good candidates to approach about supporting the endowment. Once achieved, we project that a \$5 million endowment, of which only the earnings are spent, will fund 50% of LWW operations by the year 2010.

Praise be to God!



**MUSIC MAKERS** — Jim Gates (left) Norfolk, Va., and Steve Long of Cincinnati provided instrumental backup for worship at the April 19-23 sessions of Clean Water U — and also conducted some fine jam sessions.

## We'll be at GA, PW Triennium

Attendees at this year's two largest events in the Presbyterian Church (USA) will have a prime opportunity to learn about Living Waters for the World.

Our organization will have a large "double wide" exhibit at both General Assembly, taking place June 15-21 in Birmingham, Ala., and the PW Triennium Conference, July 7-11 in Louisville, KY.

Our presence at these events provides an opportunity for thousands of Presbyterians to become acquainted with the work of this mission, and to perhaps fully understand for the first time that our role is to train and equip *them* to carry out this important work.

Many thanks to Pierce Buford, one of our most dedicated volunteers, for handling arrangements for both events.

## Networks gain strength; El Salvador unit created

**network** *n.* 1. Something with a number of parts that cross, branch out, or interconnect. 2. In Living Waters for the World, a group of cooperating water systems in a geographical area.

That second definition isn't in Mr. Webster's dictionary, but maybe it should be, with the importance that networks are assuming in our operations.

We now have a third network, in El Salvador, to join existing networks in Guatemala and the Yucatan of Mexico.

Nancy Losure of Starkville, Miss., is LWW's coordinator of the new network in El Salvador. Her church, Trinity Presbyterian of Starkville, has installed two water systems in that country and plans two more this summer.

She also has been working to build relations with the Peace Corps in El Salvador, which is interested in providing pure water in rural areas.

The Guatemala network, where Katy BeDunnah of San Antonio, Texas, is LWW's coordinator, has seen eight installations since the first one in March 2004 and sees at least six more this year.

Eighteen of the 47 people attending the April 2006 session of Clean Water U indicated they plan installations in Guatemala.

Ms. BeDunnah also is working with the Peace Corps, particularly in connection with three schools with a Peace Corps connection. She has proposed installing a water system at a training center so that new Peace Corps volunteers could see first-hand how clean water can benefit communities where they will serve.

The Yucatan network in Mexico, which is LWW's largest, also is bustling with activity. Coordinator Joanie Lukins of

Danville, Ky., reports activity planned at 11 sites in May and June alone. Most of these are trips to upgrade existing sites with newer equipment better capable of treating the conditions of hardness and salinity that are common to the region.

The Yucatan has its own network coordinator within the Synod of the Peninsula of the Mexican National Presbyterian Church, the Rev. Miguel Sansores, a CWU graduate.

That group plans the first-ever school for water system operators from across the region this summer. The Seminario San Pablo (St. Paul Seminary) in Mérida has been mentioned as the likeliest site for a CWU-type school in Mexico.

Several other regions have been mentioned as likely sites for networks, including Ghana, Haiti and the Philippines.

LWW's network coordinators together serve as a steering group to plan for the work of networks. They have drawn up a set of guidelines detailing network services, processes and funding.

Networks are involved in securing the all-important Water Issues Surveys of potential water treatment sites.

"The U.S. [network] coordinator may visit sites recommended by the international partner to provide presentations on the LWW system, conduct Water Issues Surveys, negotiate or explain parts of the covenant agreements, and perform water quality tests," the guidelines declare.

"These visits will be used to determine the suitability of sites as candidate locations for U.S. partners and to rank these locations as to their readiness for installation. These visits are primarily oriented towards locations that do not have active U.S. partners involved in the LWW program."