

Letter from the President, Herb Burnham



I am often asked, “What kind of things does the Lake Hartwell Association get involved with?” Well, there is no short and simple answer. In

addition to our daily monitoring of lake levels and flow rates, addressing member inquiries and concerns, keeping our website current, emailing alerts to members, and publishing newsletters, there are always ongoing activities and issues the Association directly supports. The following list is a ‘point-in-time snapshot’ of things on our current ‘to do’ list. Several of these are addressed in some detail in this newsletter.

- **Twelve-mile River PCB Cleanup and Blue Zone Designation.** Lake Hartwell Association (LHA) has partnered with Upstate Forever and the Pickens County Water District to monitor and advocate for the best possible result for this PCB remediation project. The partnership has also successfully had the National Parks Service

designate the river a Blueway Project. **I hope I live long enough to see the day we can remove the “Don’t eat the fish” signs.**

- **Interbasin Transfers.** LHA continues to advocate against interbasin transfers with representatives of both state legislatures. This concern has been highlighted by recent droughts and Atlanta’s ever growing need for water. Withdrawing large amounts of water at any point along the Savannah River would have a major impact on the management of water levels in all of the lakes in the basin.
- **States’ Water Legislation.** LHA closely monitors and works directly with state representatives from both states on any issues and bills that could possibly affect water quality or quantity in Hartwell Lake.
- **SC Legislative Water Planning Committee.** As a member of this new committee, LHA will participate in the planning and creation of new legislation aimed at centralizing state-wide water planning and management in South Carolina. Georgia addressed this issue several years ago and is moving forward in their state-wide regional water management efforts. LHA is also represented on the Georgia team responsible for

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**Lake Clean-Up
Volunteer Appreciation
Picnic Saturday, Sept. 24th
at 11 am
More info inside!**



President's Message

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- the Savannah River Basin.
- **Water Education and Environmental Center.** LHA is a member of the Steering Committee formed to advise in the planning, development and operation of this new facility to be constructed on the shores of Hartwell Lake. Its purpose is to provide 'hands-on' water related education opportunities for all generations.
- **Keowee (Duke Energy) Hydroelectric Plant Relicensing.** Since water released from Lake Keowee flows directly into Hartwell Lake, members of LHA'S Technical Committee have been active members of the Water Quality and Water Quantity Committees collecting data and making recommendations during the relicensing process.
- **First Quality Tissue Paper Plant.** LHA's Technical Committee members have met with First Quality's management and environmental personnel on several occasions to review their water usage and treatment plans. The plant, projected to employ 700 people when operational, is currently under construction in Anderson County and will be a major new user of Hartwell Lake water.
- **Covekeeper Program.** This is an ongoing program where specially trained LHA volunteers are assigned a span of shoreline to monitor and visually inspect twice a year. Hazards and environmental issues are documented, then reported to the appropriate agencies, and reviewed again by the Covekeeper.
- **Hartwell Lake's 50th Anniversary Celebration.** April 27, 2012, will be recognized as the lake's 50th anniversary... the day in 1962 that water first flowed through the power turbines. LHA has been asked by the Corps of Engineers to play a significant role in the planning and execution of related celebratory events throughout the year.

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Bruce Widener,
Design/Layout Editor

- **Annual Lake-wide Cleanup.** As it has for years, LHA will help plan and sponsor the appreciation picnic for volunteers who participate in the annual cleanup effort organized by the Corps of Engineers.
- **SC Savannah River Basin Advisory Committee.** A member of LHA was selected to co-chair this new committee formed by SC's Department of Health and Environmental Control and the Department of Natural Resources. Its purpose is to provide SC stakeholders an official forum for communicating with the two departments regarding concerns throughout the basin.
- **Clemson Forest Buffer Zone.** LHA, along with several other concerned parties, is pursuing action that would ensure that the thousands of acres of Clemson's Experimental Forest will remain a natural, undisturbed resource. Many miles of the Seneca River arm of Hartwell Lake are bordered by the forest.
- **Anderson County Sheriff's Lake Patrol.** LHA is advocating for more patrolling by boat along the 300+ miles of Anderson County shoreline and encourages other counties to consider similar patrols.
- **Comprehensive Basin Study.** LHA continues to advocate for the completion of this long delayed study which is the key to the updating of the Corps of Engineers water management in the Savannah River Basin, including drought planning.

As you can imagine, LHA Board Members and volunteers contribute a lot of time and effort **"for the sake of the lake"**. We always need and encourage members to consider volunteering. It can be a great learning opportunity, a satisfying personal experience, and a lot of fun. It certainly has been for me!

Congratulations! Sen. Jim Butterworth

Congratulations to Georgia Senator **Jim Butterworth** who recently received the Environmental Leadership Award from the Georgia Conservation Voters. He achieved the award for his demonstrated support of Georgia's natural resources, including our beautiful Lake Hartwell.



Save A Life This Summer

By Dan Ray

One of the easiest ways to save a life when boating this summer is to wear a life jacket and insist that each passenger on your boat wears one. This message is particularly appropriate this year as too many have already lost their lives on local lakes when life jackets could have saved them.

Recently the National Boating Safety Advisory Council asked the Coast Guard to consider mandating that anyone aboard a boat less than 18 feet long be required to wear a life jacket when underway. In addition, it asks that all those being towed in water sports, riding personal watercraft, or in human powered boats of any length be required to wear life jackets as well. The Coast Guard gave its go-ahead to pursue appropriate federal regulations. According to a Coast Guard mathematical model, if a 70-percent wear rate was achieved mandating that boaters wear life jackets in boats less than 18 feet, 71 lives could be saved each year.

With the variety of PFDs now available, it should not be difficult to find a model that satisfies everyone's requirements. These include types designed for waterskiing, canoe paddling, near shore and off shore use. Some are inflatable either by automatic contact with water, whereas, others require inflating by mouth. Just be sure that the PFD is Coast Guard approved for the application you intend. Remember that the PFD stored away under the seats will not help you in time of need. WEAR IT!!

LHA Mission Statement

We will develop and establish the Lake Hartwell Association as an organization that promotes and encourages cooperation, assistance and information exchange among those concerned with Hartwell Lake and the Savannah River Basin.

We will provide a forum to collectively represent our membership on issues that pertain to the development, preservation and comprehensive management of Hartwell Lake.

We will collect and distribute information on matters affecting Hartwell Lake.

We will maintain liaisons and communications between the Lake Hartwell Association and educational, governmental, scientific and other communities.

South Carolina Legislative Update

By Marv Fralish, Ph.D.

The South Carolina Legislature adjourned on June 2nd via H. 4195 Resolution that enabled the body to reconvene on June 14th with Sine Die July 1 to consider particular matters, specifically the budget. The following legislative issues are a few issues that Lake Hartwell Association has followed during the South Carolina Legislative Session:

S. 461, the Alcoholic Beverage Container (ABC) Recycling bill was placed on the contested calendar but is still alive for passage early in January 2012 when the body reconvenes. The bill calls for the Department of Health and Environmental Control to develop, over the next two years, a recycling plan for plastic, corrugated cardboard, aluminum and glass with permit applicants and renewals receiving a 10% discount for eight years.

The Senate approved \$2 million in its version of the budget for the Conservation Bank that is still in the budget and the House version provides \$750,000. The funding would provide sufficient operational funding for the coming year. The legislation to extend the life of the Conservation Bank, slated to sunset in 2013, to 2023 passed the House, but an amendment to add additional members to the Board and some other initiatives caused the bill to be referred to the Senate Finance Committee. It could be voted on this session if two-thirds agree.

Realize that forestry, outdoor recreation, agriculture and tourism accounts for one-third of the state's economy. Yet, the combined funding of the Departments Agriculture, Forestry, Natural Resources and Parks, Recreation and Tourism account for less than 1% of the state budget.

H. 3479 that prohibits the use, sell, or manufacture of dishwashing detergents containing phosphates (harmful chemical for our lakes and rivers). While the bill passed the House, it did not come up for debate in the Senate but is on the contested calendar by Sen. Jake Knott's objection to the bill. The Chronic Sewage Polluter Bill, H. 3617, requires wastewater utilities with two spills over 5,000 gallons each within 12-months to undergo a comprehensive audit of what caused the spill and to fix the problem. The conservation community and the majority of South Carolina's largest wastewater utilities support the legislation as vehicle for bringing chronic violators in compliance.

Keep Floodplain-PCBs Out of Lake Hartwell

By Larry Dyck, Ph.D.

The Lake Hartwell Association wants the continuing PCB contamination of Lake Hartwell to stop. As this article is being written, a dam removal project on the Twelve Mile River is poised to release upwards of a ton of previously buried PCBs into the lake.

LHA, together with Upstate Forever and the Pickens Soil and Water Conservation District, have sent a letter to Federal Judge G. Ross Anderson asking that the dam removal on the Twelve Mile River be halted until contamination in the floodplain sediments is fixed. Failure to do so will result in contaminated sediments eroding into Lake Hartwell.

PCBs (polychlorinated biphenyls) are toxins with a variety of negative influences on fish and wildlife, as well as on human health. PCBs degrade very slowly and remain attached to clay and organic sediments of aquatic systems for many decades. They are mobilized from lake sediments through the aquatic food chain and gradually concentrate, or biomagnify, in the fatty tissues of fish; carnivorous fish become the most contaminated. Today, most of the active PCB-contamination resides in the sediments of the Twelve Mile and Seneca River arms of the lake. SCDHEC warns fishermen of the risk by

posting Fish Consumption Advisories around the lake. Within the Seneca and Twelve Mile River arms of the lake, the advice is, "Do Not Eat Any" (of the fish). In other regions of the lake the advisory recommends that people limit consumption of channel catfish and largemouth bass to one meal (eight ounces) per month; whereas, hybrid and striped bass should not be eaten at all if they are over 16 inches. (For more information visit the SCDHEC website.)

Contaminating PCBs entered the river and lake between 1955 and 1977. PCBs came from the Sangamo-Weston capacitor plant, located near Pickens, SC. The plant used between one and two million pounds of PCBs each year. EPA estimated a cumulative 400,000 pounds of the PCBs were released into Town Creek from the plant's waste system. Town Creek is a tributary of the Twelve Mile River.

After PCBs were banned in 1977, a multitude of studies determined the scale and scope of the contamination in the river and lake. In 1994, the EPA and the new owner of the capacitor plant, Schlumberger Technology, came to a legal agreement (The Record of Decision or ROD) on how to clean up the lake and river contamination. The agreed upon strategy was a "natural recovery" in which clean sediment would flow down the Twelve Mile River and cover, or encapsulate, the contamination on the lake bottom. A major problem was that the path of clean sediment was blocked by three small dams on the Twelve Mile River. The lower two dams, known as the Woodside Dams, were 1900 vintage mill dams that were no longer functional in 1994. As a consequence, the ROD required Schlumberger to manage the flow of clean sediment past these dams. Unfortunately, Schlumberger was unable to manage the sediment without causing unacceptable environmental problems downstream which included fish kills.

In 2006, a second independent legal opportunity arose. This was a settlement for damages that the PCBs caused to the natural resources of Lake Hartwell and Twelve Mile River. The "People" were represented by a group of State and Federal natural resource agencies referred to as the "Trustees." An agreement (Consent Decree) was reached between the Trustees and Schlumberger in 2006. The Consent Decree provided compensation for the PCB damages in two ways. First, \$12 million was awarded for damages to recreational fishing; these funds were divided between South

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Photo shows floodplain banks collapsing and eroding into Twelve Mile River. Black sediments contain PCBs that will wash into Lake Hartwell.



Photo shows residential floodplain with houses in the background. Arrows point to streaks of fine grained sediment that is contaminated with PCBs.

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Carolina and Georgia. The second compensation related to damages to the ecology of the aquatic system. Compensation for Ecological Damages took the form of Schlumberger agreeing to remove the two Woodside dams and restore the associated river-gorge to a free flowing river that could bring clean sediment downstream. There was no fixed price for this project, only the agreement that Schlumberger would hire contractors to complete restoration of the river-gorge and the Trustees would oversee and sign-off on the project.

In 2009, after a three year delay, Judge G. Ross Anderson of the U.S. Federal Court ordered Schlumberger to get going on the project. Schlumberger responded and has been moving rapidly to dredge the sediment from behind the two dams and then dismantle the dams. The upper of the two dams has now been removed and the lower should come out this summer. LHA is quite pleased that the project is moving forward but, unfortunately, there are major problems!

THE PROBLEM is that the dredging has been incomplete. The main channel was dredged of sediment but left behind were 10s of feet of sediment that were created as floodplains by the impoundment. Channel-dredging actually “cut-open” the face of floodplains and dark colored oily layers with high concentrations of PCBs were exposed. Before the channel dredging these layers were buried. Tests to verify PCB contamination were performed, not by EPA or the Trustees, but by conservation organizations like LHA and local agencies of government like Pickens County. The oily layers turned out to be VERY HOT with PCBs. Concentrations as high as 157 ppm (parts per million) have been detected. To put this in perspective, this concentration

is equal to the highest value ever detected in the lake or river.

Because the floodplains are in the backyards of homeowners in the Cateechee village, these values become even more disturbing. EPA’s allowable limit for residential property is 1 ppm; at 1 ppm the dermal and ingestive risk that a child at play might experience is 1 in a million. However, at 157 ppm the risk to children rises over 700 times, to the level approaching 1 in a thousand! Such exposures are unconscionable... EPA & Trustees should be very concerned!

The problem does not stop with Cateechee residents. The 20 foot high banks of the floodplains are unstable. Banks consist mostly of sand, but are streaked with those layers containing PCBs. When a storm occurs and the river becomes violent, it undercuts the sandy banks. In turn, the exposed PCB-layers fall into the river and are swept away. As the water subsequently slows down when it enters the lake, sediment is deposited; first the heavier sand and later the finer silt and clay. The consequence is that PCBs on the finer particles find their way down into Lake Hartwell sediments where the fish will accumulate this fresh supply of PCB-contamination... and, of course, the contaminated fish may end-up on the dinner table of fishermen and their families.

What a paradox this is... rather than this dam removal project bringing clean sediment downstream to bury and reduce PCBs in Lake Hartwell, it will likely increase the PCBs in the lake. We need to do something to prevent this fate for the lake.

If you feel strongly about this issue, please join in our effort to inform our State and Federal delegation of the impending problem. State legislators can influence the State-Trustee Agencies (SCDNR, SCDHEC) Federal legislators can influence the Federal-Trustee Agencies (Fish & Wildlife Service, Corps of Engineers and EPA). We need them to put pressure on these agencies to do the right thing...to prevent more PCBs from contaminating the lake. This really is—“for the Sake of the Lake.”

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Keep Floodplain-PCBs Out of Lake Hartwell

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You might send a message like this :

Dear Legislator:

Lake Hartwell is facing a major new problem with PCB contamination. We need the Natural Resource Trustees (SCDNR, SCDHEC, USFWS & USACE) as well as EPA to respond to this imminent threat in a proactive manner.

If the floodplains associated with removal of the Woodside dams on Twelve Mile River are not excavated, up to a ton of PCBs will likely contaminate the fish in Lake Hartwell, extending the Fish Consumption Advisory well into the future.

Please let the Trustee agencies and EPA know this is unacceptable to the users of Lake Hartwell.

Sincerely Yours,
(Be sure to include your name and address.)

Email your State Legislators:

<http://www.scstatehouse.gov/html-pages/houseemail.html>

<http://www.scstatehouse.gov/html-pages/senateemail.html>

Email your Congressional Delegation:

<http://lgraham.senate.gov/public/index.cfm?FuseAction=Contact.LandingPage>

<http://demint.senate.gov/public/index.cfm?p=FederalAssistanceForm>

<https://jeffduncan.house.gov/contact-me/email-me>

Help Clean-Up Lake Hartwell

The clean-up of Lake Hartwell shoreline is sponsored by the Corps of Engineers and LHA. The campaign starts mid-August. If you or your group are interested in the clean-up activity, please go to the Corps website for more information on how to sign up or call **Scott Demore** at the Corps. 706-856-0341

Save The Date!

Saturday, September 24, 2011 11 AM is the date for this year's "Lake Clean-Up Volunteer Appreciation Picnic". As always, it will be held at the Big Oaks recreation area next to the Hartwell Dam Visitor Center, GA. Hope to see you all there!

Looking For Some Fun?

Friday, July 15th to Sunday, July 17th, 2011

What : GA - Wakeboard Amateur Open Competition

Where: Big Oaks Recreation Area, off US Hwy 29, Hartwell, GA

Who: To enter or volunteer, contact Gretchen Torrence
706-436-3572: gmt@hartcom.net or Kathy Benson,
864-716-3660, Kathy@visitanderson.com

Saturday, Jul 16, 2011 8-9pm

What: Snakes Alive

Where: Tugaloo State Park, 1763 Tugaloo State Park Rd, Lavonia, GA 30553

Who: For directions, call Tugaloo State Park Office,
706-356-4362. (Parking \$5).

Saturday, Jul 30, 2011 8-9pm

What: Raptors of the Region

Where: Tugaloo State Park, 1763 Tugaloo State Park Rd, Lavonia, GA 30553

Who: For directions, call Tugaloo State Park Office,
706-356-4362. (Parking \$5).

Friday, August 12th to Sunday, August 14th

What: National Tour Triple Crown Watercross

Where: Sadlers Creek Recreation Area, 940 Sadlers Creek Road, Anderson SC 29626

Who: To volunteer contact Kathy Benson, 864-716-3660,
Kathy@visitanderson.com or contact or Gretchen
Torrence 706-436-3572: gmt@hartcom.net

Monday, August 15th to Sat., Sept. 24th

What: Lake Hartwell Annual Clean-Up Campaign

Where: Lake Hartwell park lands and shoreline.

Who: To volunteer, call Corps Office at 706-856-0300 or
toll free at 888-893-0678

Saturday, September 24th 11 AM - SAVE THE DATE!

What: Lake Hartwell Annual Clean-Up Campaign
Volunteer Appreciation Picnic 11 AM

Where: Big Oaks Recreation Area, off US Hwy 29, Hartwell, GA

Who: To volunteer, call LHA at 864-224-5253;
membership@lakehartwellassociation.org

Saturday, September 24th

What: Georgia Free Fishing Days

Where: State of Georgia public freshwaters & salt-waters

Who: GA DNR Wildlife Resources Division Licensing,
1-800-366-2661



GA Gov. Deal's Water Supply Program

By Marv Fraslish, Ph.D.

In January 2011, Governor **Nathan Deal** directed the Georgia Environmental Finance Authority (GEFA) to develop and launch the Governor's Water Supply Program. The purpose of the program is to align and mobilize the resources of the state of Georgia to assist local governments with developing new sources of water supply adequate to meet future water demand forecasts.

As directed by the Governor, GEFA convened a Water Supply Program Task Force that will provide expert guidance in the program's development and implementation. The agencies participating in the Task Force are:

- GA Environ. Finance Authority
- GA Dept. of Natural Resources
- GA Environ. Protection Div.
- GA Dept. of Community Affairs
- GA Financing & Invest. Comm.
- State Properties Commission
- Georgia Dept. of Agriculture
- Georgia Soil & Water Conservation Commission

Program Manager: Kevin Kelly
404-584-1053

Media Inquiries: Shane Hix
404-584-1043

The Technology and Finance Subcommittees met in Perry, GA recently to discuss policies and funding procedures. The Lake Hartwell Association is monitoring the activities and the initiatives of the Governor's Water Supply Program in order to insure that our member's concerns are considered in any major decision of this important policy group.



President, Herb Burnham, discusses Lake Hartwell issues with US Senator Jim DeMint at the Anderson County Chamber of Commerce meeting.

ANDERSON COUNTY SHERIFF'S LAKE PATROL

LHA Members Action Requested

Since more than 300 miles of Lake Hartwell shoreline lies in Anderson County, the LHA had asked the Sheriff to consider a patrol boat to improve safety and security for those Anderson citizens having lake front property. Sheriff John Skipper was receptive to our request and activated a patrol shortly after taking office in 2009. Due to his experience and love of Lake Hartwell, Detective Rusty Ables took responsibility for the startup and supervision of the patrol. LHA thanks John, Rusty and all the deputies who have volunteered their off-duty time to make the patrols possible.

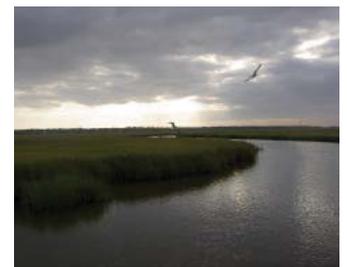
The current economic situation that Anderson County is facing has created a shortage of manpower available for the lake patrol. Earlier in the spring, the Anderson Independent Newspaper reported a rash of thefts by boat. The articles reported that several arrests were made by lake patrols. Unfortunately, with the manpower shortage, these patrols have been drastically reduced.

LHA members who own lake front property in Anderson County are encouraged to e-mail Sheriff Skipper at: www.jskipper@andersoncountysc.org and ask that steps be taken to increase lake patrol coverage during these high-activity months of the boating season.



Trashing Our Environment

When rain washes the landscape clean, it picks up trash and debris as well as other pollutants. Since stormwater is not treated, these pollutants get directed to the nearest ditch, creek, pond, estuary and beach. The result: TONS of trash polluting our nation's rivers each year, degrading aquatic habitat, harming wildlife, clogging pipes and infrastructure and leading to unsightly messes in the environment. In just one week in 2008, volunteers removed 12.5 tons of trash from South Carolina's shoreline alone (data supplied by the SC Sea Grant Consortium). In 2009, South Carolina's Department of Natural Resources placed a value on a healthy environment to the tune of \$30 billion dollars brought to the state's economy annually. Litter and debris can decrease this value when beaches become littered and rivers become clogged with garbage.



What can you do to better protect South Carolina's environment from being overrun with litter?

1. Never throw, pour or sweep anything into storm drains. Only rain down the drain! Even leaves and yard debris can clog pipes, leading to costly fixes for your town and adding unnecessary nutrients to local waterways that could lead to algae problems, poor water quality and fish kills.
2. Bag your trash. Often times, when the garbage truck picks up your trash can, loose debris may miss the truck and be left behind on the ground and roadway. If this is happening to you, bag your trash.
3. Report littering! Your town will want to know if people are illegally dumping large amounts of trash, stuffing trash down a storm drain or leaving it behind at parks and public areas. Additionally, Palmetto Pride has a hotline where you can report littering in action; the phone number is 1-877-7LITTER or report online at www.palmettopride.org.
4. Get involved with a watershed or community group that is interested in educating people about litter and organizing stream clean ups. Clean ups are immediate "feel good" activities. Also, look for National River and Beach Sweep events happening in your community in September of each year. Don't pollute! Even cigarette butts can add up in the environment. Let others know too that what goes down the storm drain ends up in the rivers, lakes and ocean that we all enjoy! For additional information, please visit us online at www.clemson.edu/carolinaclear.



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Top of Keowee Dam



Spillway at Lake Jocassee Dam

Keowee-Toxaway Relicensing - Tours Of The Hydro Dams

On June 14 and 15, LHA technical committee members toured the Jocassee Pumped Storage Station and Keowee Hydroelectric Station. The tours included visiting some of the dams, spillways, and dikes. Lake Jocassee has one dam, two dikes, and a gated spillway. Lake Keowee has two dams, five dikes, and a gated spillway. These hydroelectric stations are maintained by the Duke Energy Carolinas Hydro Fleet.

For more information, visit the Keowee–Toxaway Relicensing website: <http://www.duke-energy.com/lakes/keowee-toxaway-relicensing.asp>.



Jocassee Dike



From top of Keowee Dam looking at Keowee River (Lake Hartwell)

MAY 14th PICNIC – A GOOD DAY!

By Ruth Ann Maciag

We were blessed with a lovely day for our Member Appreciation Picnic at Big Oaks Recreation Area on May 14th. We had a good crowd – missed some of you, though – and great food, once again, prepared by LHA Board Members.

New this year was Mister Twister, the clown and balloon twister. He did amazing things with balloons and had stick-on tattoos, as well. There were not too many children in attendance but some of the adults were seen sporting the balloon hats.

Also present were John Cothran of Rainmaker Ponds & Irrigation and Daniel Vincent of Hardscapes Plus. They shared ideas on stopping erosion and enhancing properties with the use of pavers and other materials.

Below: Virgill Hobbs, Pat Goran, Mr. Twister, Mike Massey and Herb Burnham



Right: Don Bowen, SC District 8 Rep. and Ruth Ann Maciag



Herb Burnham, LHA President, welcomed everyone and thanked them for their time and effort in support of Lake Hartwell Association and its goals and projects. He then recognized Virgil Hobbs, Manager of Operations for the Hartwell Project for the last seven years, who has recently moved to a new position with SEPA. Herb noted that Virgil has been an effective liaison between the Corps and LHA, wished him well in his new position, and presented him with an LHA logo Polo and hat.

Don Bowen, SC District 8 Representative and long-time LHA supporter, spoke about water issues concerning both South Carolina and Georgia and what can be done to better manage this resource.

LHA logo apparel was available for sale for the first time – and the hats sold out! All items will be available at the Volunteer Appreciation Picnic at the conclusion of the Lake Hartwell Clean-up Campaign on September 24 at 11 am at Big Oaks Recreation Area. Available items will include: men’s and ladies’ polo shirts, T-shirts, hats, and totes. LHA thanks all of its members for their interest and effort and wishes them all a very safe summer!

FOR THE SAKE OF THE LAKE



Virgil Hobbs accepts a LHA logo polo shirt from Herb Burnham



LHA logo items will be sold at the Appreciation Picnic on Sat., Sept.24th.



Above: LHA volunteers at the grill.

Left: Herb Burnham, George Bramlett, interim operations manager, Mike Massey, Virgil Hobbs and Pat Goran

Education – Fundamental To Sustainability

By Herb Burnham

We often use the term “sustainability” to mean passing on something in the same condition it was passed on to us. I prefer to think of it as passing on something better, along with the knowledge and commitment needed to keep improving it for generations to come. Education is fundamental to knowledge and, if presented in a manner that stimulates curiosity and stirs the imagination, will often lead to lifelong commitments.

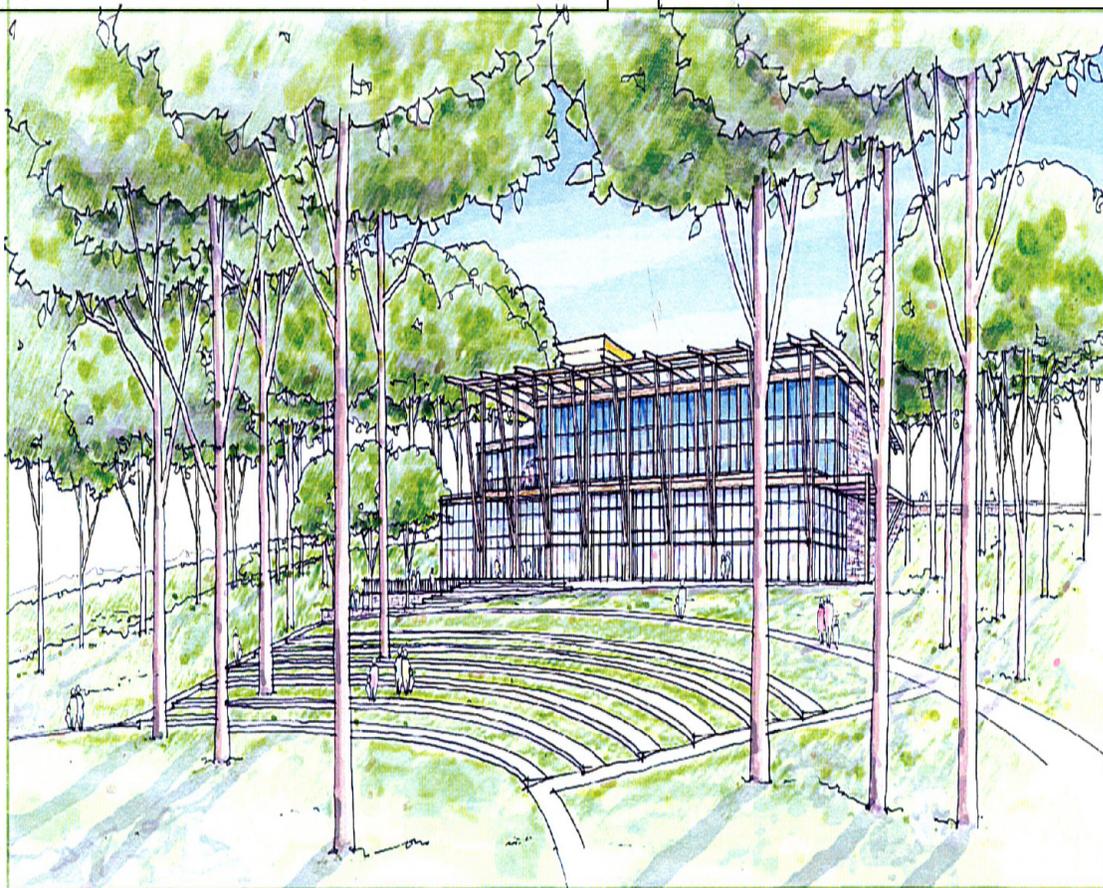
Several years ago Charlie Gibson, Chairman of the Sandy Springs Water Board, had a vision for developing a facility on the shores of Hartwell Lake that would be a world-class venue for water related education. Like so many of us who are concerned about the sustainability of Hartwell Lake, Charlie felt that we must do everything we can to educate up-coming generations to be good stewards of this precious resource. He also recognized the need to provide continuing education opportunities to current stewards of the lake, as well as the general public who depend on the lake for their water.

In 2009, a non-profit organization was created to move ahead with Charley’s vision. At that time, a design firm laid out a pre-

liminary concept of how the envisioned facility would appear on the 21 acres of land adjacent to the Anderson Regional Joint Water Systems plant which was already leased from the Corps of Engineers. The next step is to raise the \$300,000 needed to produce an architectural master plan. Considering today’s economy, this could be a slow and difficult task but one that has enormous promise and potential. **IT MUST NOT BE ABANDONED.**

The facility will be known as the Water Education and Environmental Center (WEEC). In addition to exhibits, shoreline and lake tours, indoor and outdoor meeting facilities, it will also provide hands on learning experiences and dynamic models that will demonstrate environmental issues related to water.

The Lake Hartwell Association is proud to be a partner in this endeavor and a member of the WEEC Steering Committee that will oversee planning and development. We are also proud to have WEEC as a member of LHA. This cooperative relationship will help ensure that this new and creative educational opportunity becomes a reality not only “for the sake of the lake”, but for communities throughout upstate South Carolina and northeast Georgia. More information will soon be available on the internet. In the meantime, you are invited to request additional information by emailing Phillip Cahaly, WEEC’s secretary/treasurer, at www.philsswater@gmail.com; or by phone at 864-646-7729.



Artist rendering of proposed new facility and amphitheater.

The Clemson Experimental Forest Protects Lake Hartwell

The Clemson Experimental Forest protects the water quality of Lake Hartwell and its inflowing streams. The following paragraphs are excerpts from the CLEMSON UNIVERSITY: OFFICE OF LAND MANAGEMENT, CLEMSON EXPERIMENTAL FOREST NATURAL RESOURCE AREA INVENTORY AND GUIDELINES, October 2008.

Consistent with its mission, the 17,500+ acre Clemson Experimental Forest (“Clemson Forest”, or simply “the Forest”) has been managed over the years to provide for research and educational opportunities, wildlife enhancements, commercial timber, and public recreation.

The present inventory and planning process (begun in 2005) represents an overview of the Forest and adjacent agricultural lands (total of 18,663 acres) to further document special natural resources and natural resource areas, and to identify them on maps.

This Inventory process considered 18,663 acres. The great majority of these acres were under intensive row crop production prior to Clemson University ownership. Today, these particular acres are largely utilized for production of forest products, forestry research, education, recreation and wildlife management, resulting in a mix of successional habitats that are important to conservation. However, some Forest areas were not intensively farmed. These latter areas, along with streams and wetlands, harbor some of the most natural settings on the Forest, areas worthy of recognition and extra protection. Under this Inventory 3,823 acres (21%) will receive extra protective management by being designated as Special Natural Resource Areas or as Buffers for streams or Lake Hartwell.

Lake Hartwell Buffer: The Corps of Engineers owns and maintains a strip of project land around the shoreline of Lake Hartwell that buffers the lake from impacts associated with land disturbing activities. The distance covered by this strip varies in locations. In order to help protect/enhance water quality and aesthetic factors associated with Lake Hartwell, this inventory establishes a “Lake Hartwell Buffers” class, with guidelines, on adjoining Clemson Forest land where it is needed to extend protection to a minimum of 100 ft from the lake’s full pool shoreline.

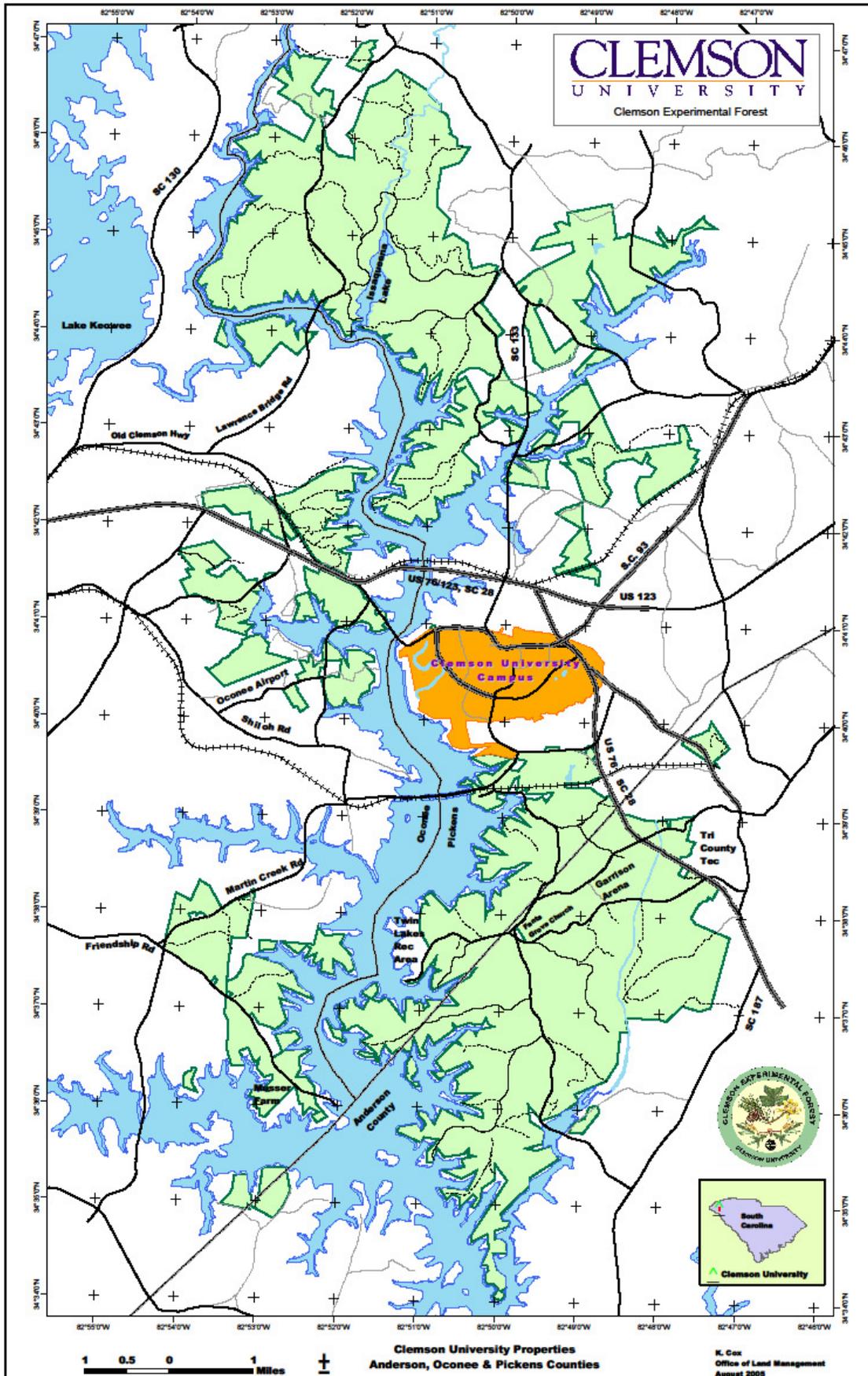
Stream Buffers: It became obvious from the start of this planning process that many of the Forest’s special natural resources are associated with its streams. In order to help ensure protection for these linear and high value natural resource zones, the “stream buffer” land class for the Forest has been expanded. Historically the buffers have been 40 ft minimum on each side of the streams, with the primary goal of protecting water quality. Based on field observations during this work, and input from experts, the standard width of stream buffers have been expanded to: A) 100 ft on each side of perennial streams, and B) 50 ft on each side of intermittent streams. In addition, a new objective for these buffers now includes protection of the abundant botanical/zoological resources found in these riparian areas, as well as protection of water quality in the streams. This expanded “Stream Buffer” land class and its guidelines will provide significant additional protection for both water quality and notable botanical and zoological resources.

Special Natural Resource Areas: In some locations the abundance and/or distribution of special natural resources, their distance from streams, and/or their unique nature called for protection of areas beyond those covered by stream buffers. In order to accomplish this, a land classification called “Special Natural Resource Area” was created. Eighteen such areas were identified during this planning effort. Among these areas are ecological showcase settings of the Clemson Forest.

Please visit the Clemson Experimental Forest website to view the entire copy of the referenced report at www.clemson.edu/cef.



REMEMBER...
**LHA updates water level
 projections on a weekly basis on
 our web page.**
www.lakehartwellassociation.org



PLEASE NOTE

Your LHA board and executive administrator recognize the importance of keeping members fully informed in a timely fashion. It is necessary from time-to-time to remind members that to do so we must have your correct mailing address, phone number and email address. Your email address is particularly important since urgent alerts and updates are becoming more prevalent.

Please rest assured that LHA has a strict policy of not sharing members' contact information with anyone unless specifically requested to do so by the member in writing. If you are certain LHA has your current contact information, you may ignore this notice. Otherwise, please update your personal information by emailing LHA at membership@lakeharwellassociation.org.



LHA Membership: Welcome Aboard & Thank You!

Thank you all for your ongoing support of LHA's efforts to protect the beauty and value of our beautiful lake and watershed. Please join us in welcoming the following members who have joined since our last newsletter.

New Family Memberships

- | | |
|--|-------------------|
| ◆ Wayne & Linda Barlow | ◆ Michael Hill |
| ◆ Craig Brown | ◆ Collette Holler |
| ◆ Bob & Karen Crone | ◆ April Hughes |
| ◆ Janet Westpheling &
David Garfinkel | ◆ Greg L. Shore |
| | ◆ Nancy Wooten. |

New Community/Business Memberships

Central Irrigation Supply - Idral Bowen - Mobile, AL
 Clearwater Shores Community - Gary Bruce - Fair Play, SC
 Diamond T Promotional Gear - Derek Burnette - Fair Play, SC
 Mike & Sherry Hayes - Hoschton, GA
 Hartwell Lake News - Angie Wilson - Blackstock, SC
 Water Education and Environmental Center—Anderson, SC

Special Donations

- | | | |
|--------------------------|------------------------------------|----------------------|
| ◆ Robert Bray | ◆ Lois J. Brooks & Gene
Massine | ◆ Cory P. Schilling |
| ◆ John & Ann Burton | ◆ Mark & Maria McDonald | ◆ John K. Stott |
| ◆ Vincent & Laura Dillon | ◆ Carlton Mel | ◆ Dennis L. Thompson |
| ◆ Vivian V. Hunter | ◆ John & Dawn Nelson | ◆ Johnny Tyra |
| ◆ Harold Martin | ◆ Jack & Cindy Plating | |
| ◆ Jane S. Martin | | |

Thank you for supporting LHA's work
"For The Sake Of The Lake!"

LHA COMMUNITY & BUSINESS PARTNERS

Please visit our Partners at their business locations and thank them for supporting LHA! Refer to the LHA website for more contact information.

- Anderson Regional Joint Water System - Scott Willett (864) 231-5987
- Andrew Adams, DDS (864) 226-6278
- Big Water Marina - Jane W. Davis (864) 226-3339
- Bill Brisse Real Estate - Bill Brisse (864) 226-7380
- Billy Howell Ford Lincoln Mercury - Billy Howell (770) 887-2311
- Brysan Utility Contractors, Inc. - Christopher Barber (770) 985-4606
- Byers Precision Fabricators - Roger Byers (828) 693-4088
- C. Dan Joyner Company - C. Dan Joyner (864) 242-6650
- Carola Dauchert Real Estate LLC - Carola Dauchert (864) 226-5473
- Carolina WaterSports - Chad Hodges (864) 332-0090
- Central Irrigation Supply - Idral Bowen (914) 347-5656 *
- Chickasaw Point Property Owners Association (864) 972-3680
- Clearwater Shores Community - Gary Bruce (864) 304-3656 *
- Coldwell Banker Fort Realty - Fort Oglesby (888) 409-5054
- Collins Dock, Inc. - Tammy Collins Smith (864) 225-2881
- Connie & Robert Banks
- Custom Dock Systems - Don Haynie (864) 225-2393
- Diamond T Promotional Gear - Derek Burnette (864) 972-0690*
- Dock Depot - Richard Henshaw (706) 377-3200
- Docks South, LLC - Bill Griggs (770) 377-3625
- Eric Nilsson
- Grady's Great Outdoors - John Phillips (864) 226-5283
- Greg Collins
- Harbor Light Marina - Larry Rich (706) 356-4119
- Hartwell Lake News - Angie Wilson (864) 934-3952*
- Hartwell Marina & Boat Sales - Brant Tew (706) 376-5441
- Jerilyn Wiech - Keller-Williams Lanier Partners (706) 244-8211
- Kroeger Marine Construction, Inc - Dave Kroeger (864) 882-7671
- Lake Hartwell Sail & Power Squadron - Bert Baxter (864) 601-1660
- Lakeside Chiropractic, LLC - Dr. Cindy Pradhan, DC (864) 224-7660
- Lee's Marine LLC - Randy Lee (864) 224-0123
- Marine Specialties, Inc. - Richardson Garrett (864) 287-5880
- Matthew Nasrallah, Attorney-at-Law (877) 266-3694
- Mike & Sherry Hayes *
- Mike Sanders Boat Storage - Michael W Sanders (864) 231-0010
- Paradise Point Inc - William Roberts (404) 261-5003
- Paul & Susan Meng
- Phil Jewelers - Phil Silverstein (864) 226-7635
- Pintail Point Property Owners Assn. - Sheree Moate (864) 622-2265
- PIP Printing - Ovid Culler (864) 225-1471
- Portman Marina - Dave Freeman (864) 287-3211
- Romano's Italian Restaurant - Nouhad Yarid (864) 332-0434
- Strickland Marine Center - Dave Strickland (864) 225-0145
- Swaney's Point Association - Danny Shook (828) 242-1612
- T N Construction - Thad Strickland (864) 574-2113
- The Hartwell Sun - Robert Rider (706) 376-8025
- The Regatta at Lake Hartwell HOA, Inc. - Joe Argo (864) 226-7202
- Upstate Forever - Brad Wyche (864) 250-0500
- US Army Corps of Engineers Hartwell Dam & Lake Project (706) 856-0300
- View Point Lot Owners Association - (770) 814-0963
- Water Education and Environmental Center (WECC) - Charlie Gibson (864) 844-1179
- Watermark Realty Company - Patricia Rowland (706) 356-2121
- William M. Callahan, DDS (864) 647-9000

Thanks for YOUR Support!

*New members



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 Web Site: <http://www.lakehartwellassociation.org>

LAKE HARTWELL ASSOCIATION

P.O. Box 2122, Anderson, SC 29622



Membership Application

Summer
2011

Good news! Joining LHA and renewing your membership just got easier! You may mail this Membership Application form with your check to LHA at the above address, or visit the LHA website (see above) to make a secure credit card payment!

Membership Information: Check all that apply

- New Renewal Address change Amount Paid \$ _____ Date _____
- Family \$25 Community, Association or Business \$100
- Gift Membership Additional Donation \$ _____

Name _____

Spouse's Name *(If Family Membership)* _____

Mailing Address _____

City _____ State _____ ZIP _____

Phone (H) _____ (W) _____ (Cell) _____

E-Mail _____

Occupation(s): Yours _____ Spouse's _____
(If retired, check here and give former occupations above)

Lake Address _____ County _____
 (*or Gift Recipient's address) _____

Pay by Check: Make checks payable to **Lake Hartwell Association, Inc.**
 Send to address above.

Give Something Back To The Lake.

Please select committees on which you would be willing to serve.

- Legislative
- Program
- Financial
- Lake Cleanup
- Safety
- Technical
- Membership
- Publications
- Covekeepers
- Other