



Lake Hartwell Association, Inc.

for the sake of the lake

Spring, 2010

Volume XXII, Number 2

Letter from the President, *Herb Burnham*



In Stephen Covey's highly acclaimed bestseller, The 7 Habits of Highly Effective People, he states "**management is doing things right, leadership is doing the right things.**" Every so often we should pause and reflect on the significance of this statement. It applies to us as individuals as well as organizations... are we doing the right things or simply doing things right?

While reviewing LHA's accomplishments over the past year and drafting objectives for the next year, I was pleased with

what we have achieved overall and the direction in which we seem to be headed. I am convinced the association is meeting the overall objectives laid out in the mission statement, is operating within our budget and, based on feedback, is keeping members well informed. I also recognize that as a non-profit and volunteer organization, LHA is limited in what it can do and how it can operate. The fact that Hartwell Lake is part of a much larger system, the Savannah River Basin (SRB) with two states having equal rights to its water, makes getting things done or changed a very difficult (and sometimes frustrating) task. The number of stakeholders and other interests involved is staggering. Therefore, it is important that we focus on and prioritize issues that relate to Hartwell Lake. To do so requires that we stay abreast of what is happening upstream as well as downstream and it is a very long stream.

Your LHA board is one of the most dedicated and cooperative volunteer teams I have ever worked with. Most of the directors are also committee chairmen who, with the help of their volunteer members, do the "heavy lifting" to make things happen. The several directors who do not head committees contribute by observing, advising and providing backup. New directors normally come from the volunteer ranks and serve at their own pleasure. There are no term limits but rather a natural flow that is "healthy" because it introduces new ideas and "outside the box" thinking.

If you are a member of LHA you obviously share a love and respect for Hartwell Lake, and also share a concern for its sustainability. There are several things you can do that will really make a difference. First, you are encouraged to communicate with your LHA board of directors; good ideas and reasonable suggestions are always welcome. Tell us if you think we are "doing the right things or simply doing things right." Second, consider volunteering for a committee and maybe becoming a board member which gives you a role in the decision making process. Take it from me the feeling of self-satisfaction is well worth it. Third, encourage others to join. The influence we have at the state capitals is based on our membership power expressed as individual voters.

All the information you need to communicate with the board, to volunteer and/or sign up new members can be found on the last page of this newsletter. Volunteers are currently needed for the Covekeepers program as well as the technical and legislative committees. Do it "**For the Sake of the Lake.**"

Inside this issue

Update on SC Water Planning	2
Report on GA Regional Water Planning Council Progress	3
LHA Regional Meeting Held in Georgia	4
Anderson County Sheriff's Office Aims for Improved Safety	5
Upstate Forever Presents 2010 Clean Water Champion Award	6
Official Ballot - Please Vote	7
PCB Clean-up Begins at Two of Three Dams	8
Vogtle Electric Generating Plant Update	9
LHA is Part of Keowee FERC Relicensing Study Teams	10
National Magazine Publishes Article by LHA Director	11
Did You Know?	12
Hartwell Lake Levels	12
Merchants that contributed door prizes to 2009 Cleanup Campaign	13
CoveKeepers Meeting Held at Anderson County Museum	14
LHA Membership: Welcome Aboard & Thank You!	15

Upcoming LHA Events

Technical Committee Meeting
6:30p 4/12/10
Anderson Library

LHA Board Meeting
6:30p 5/10/10
Anderson Library

Lake Hartwell
Association, Inc.

P. O. Box 2122
Anderson, SC
29621
(864) 224-LAKE

**OFFICERS &
DIRECTORS**

Officers

Herb Burnham,
President

vacant,
Vice President

Joe Brenner,
Past-President

Jim Bushey,
Treasurer

Pam Thacker,
Secretary

**Directors &
Committee
Chairs**

Joe Brenner,
GA Legislative

Mike Massey,
SC Legislative

vacant,
Technical

Dr. Larry Dyck,
CoveKeepers

Pat Goran,
At-Large

Jim Gardner,
Publications

Ruth Anne
Maciag,
*Program/
Publicity*

Dan Ray, *Safety*

Vern Sauer,
Webmaster

Mike Massey,
Membership

Update on SC Water Planning

Submitted by Mike Massey

H3132 – *The South Carolina Comprehensive Statewide Water Management Act* was presented to stakeholders for discussion by the House Environmental Affairs II Subcommittee in Columbia on February 23, 2010. This bill was introduced by SC representative Don Bowen, District 8, Anderson and supported by the Lake Hartwell Association as a singularly important bill with significant recommendations to improve water management in South Carolina.

The water management bill would create a state water planning committee, which would develop a statewide water management plan. It also would establish stakeholder advisory councils for each of the state’s major water basins. The stakeholders would be people with water interests in each specific basin. Equally important, the bill provides the legislative approval and authority to implement the bill’s recommendations. Why is this important?

Currently the Department of Natural Resources (DNR) is required by statute to develop a water plan for the state but, as stated by members of that organization, “we have no such statute requiring us to implement it.” This quote should cause a big red light to go on in everyone’s mind.

Mike Massey, Chairman of the LHA Legislative Committee for South Carolina, presented the LHA views and reasons for the South Carolina legislature to approve this bill at the February 23 meeting in Columbia. Joining Massey in presenting support were Harry Shelley, Facilitator for *The Friends of the Savannah River Basin* from Lake Thurmond, Dave Landis, President of the *Lake Murray Association* and Jerry Clontz of *Save Our Lakes Now*. Massey also read a letter in support of the bill from John Tynan, Co-Director, Clean Air and Water Program of Upstate Forever. These groups alone repre-

sented over 30,000 people in favor of changing the way South Carolina manages water.

Arguments against the bill were voiced strongly by Mr. Mike Rowe, Director of Research and Planning for the Department of Health and Environmental Control (DHEC). Mr. Rowe said the state is already planning to develop a new Comprehensive Water Plan. His arguments, however, seemed empty for two primary reasons.

1 – DNR & DHEC have not provided any form of plan to implement the January 2004 Water Plan recommendations (as stated - since there is no statute requiring it).

2 – DHEC & DNR will team to develop a new Comprehensive Water Plan. However, since there is currently still no statute in place to require them to implement any new water plan recommendations. They are against the only bill that would provide a legislative statute (H3132), so *what good is spending the time and money for a new plan?*

Following debate and questioning by the legislature, the House committee adjourned debate on the bill, meaning it could come up again for additional debate. We are grateful to subcommittee chair, Representative David Hiott, SC District 4, for bringing this bill to the subcommittee for debate. We are equally grateful to Representative Jeff Duncan, SC District 15, Chairman of the Natural Resources and Environmental Affairs Committee for also supporting the bill and allowing it to be heard in subcommittee. H3132 is still in the pipeline for approval by the House. If that happens, it will then be passed to the Senate for their deliberation. Time is getting short for passage this year but we still have hope.

LHA will continue to work with the legislature and state water stakeholder organizations in an attempt to improve the current process for water management in South Carolina. We will keep you informed.

Report on GA Regional Water Planning Council Progress

Submitted by Pat Goran

First, there is some good news. Georgia Governor Sonny Perdue and the water task force that he created several months ago apparently are not going to push for loosening of interbasin transfer regulations this legislative session. Current state law bans interbasin transfers into the metro Atlanta area. There is very little doubt in my mind there will be a push for interbasin transfers into the Atlanta area in the future, depending on the results of the ongoing discussions between Alabama, Florida and Georgia about their shared rivers.

Now, there is some potentially bad news. In a nutshell, EPD modeled the Savannah River Basin using historical rainfall, flow and lake level data (I don't believe it included the 2008 drought) and the Corps of Engineers' current operating plan for the dams on the Savannah. Based on current demands (not projected, such as Plant Vogtle's proposed doubling of their withdrawal or possible future interbasin transfers out of the Savannah basin), they say there are no problems because in the worst case for Hartwell there's 37% of the conservation pool (that's the water between elevations 625 and 660) remaining and for Thurmond 13% left (between elevations 312 and 330).

That may sound fine to some people, but it means some bad things. First, EPD currently thinks everything's "OK" as long as Hartwell is above 625' and Thurmond's above 312' since none of their regulations are being violated. Second, it could mean, with 37% of Hartwell's conservation pool remaining, Hartwell and Thurmond would both be down nearly 15' assuming the Corps keeps the lakes in balance. With Thurmond at 13% of storage remaining, Hartwell would be around 630' (30' below full pool) and Thurmond would be around 313'. Finally, this is based on current withdrawals, not looking decades into the future when there will undoubtedly be even higher demands for water.

I'm an alternate member of the Savannah – Upper Ogeechee regional water planning council, one of 11 councils established by the Georgia Legislature. I attended a meeting in Augusta January 19 with representatives from several other regional water councils and Georgia's Environmental Protection Division (EPD). One of the most important things the regional councils

will do is identify current and future "gaps" and how to deal with them. A gap is when the demand or need for water exceeds the amount of water available.

Let me emphasize this is the first pass and I'm not trying to be critical of EPD. I believe the information they've given us is accurate and they will be looking at projecting future water needs and their impacts on lake levels. EPD understands that Hartwell being down 30' is not "acceptable" to people around here. It's up to the various appointed regional councils (not EPD) to recommend how communities up and down the Savannah basin "share in the pain" equitably during drought. While I recognize that downstream communities in the Savannah River Basin have their water needs, Hartwell and Thurmond shouldn't be treated as giant retention / detention ponds that can be relied upon.

The lakes are very important to the economies of the surrounding communities and lake levels should be taken into account along with the downstream needs of the river basin. It should be pointed out, however, that managing lake levels for the economic benefit of surrounding communities is not one of the authorized purposes of the reservoirs. As I understand, having that purpose added literally takes an act of Congress. Hopefully the economic study (jointly funded by the Corps and area communities) currently taking place will help make that happen.

All of the regional water planning council meetings are open to the public. You can go to Georgia's State Water Plan website (www.georgiawaterplanning.org) or the Savannah – Upper Ogeechee website (www.savannahuppergechee.org) for updates on the status of statewide water planning. Comments can be submitted to info@savannahuppergechee.org.

I urge you to talk to your elected representatives – make sure they know the importance of Hartwell Lake to up-state South Carolina and northeast Georgia. South Carolinians – make sure that your state (and the Corps for that matter) is at the table for discussions. This is a big undertaking and should guide water issues in Georgia for decades to come and will also obviously have a large impact on South Carolina.

LHA Regional Meeting Held in Georgia

Submitted by Janet Clayton

The most recent Lake Hartwell Association (LHA) regional meeting was held at the First United Methodist Church in Hartwell, Georgia on March 4.



Gary Lance, LHA's CoveKeeper Captain for the Upper Tugaloo, was the first speaker. He gave an overview of Collapse written by Jared Diamond in 2005 which traces how ancient and modern societies choose to succeed or fail by the decisions they make with regard to their natural resources. In his Power-

Point presentation, Gary showed the types of things that CoveKeepers are trained to do and look for such as abandoned boats and poor shoreline management.



The featured speaker was **Tonya Bonitatibus**, a member of the National Riverkeeper Organization and their representative for the Savannah River Basin. Tonya, whose riverside office is in Augusta, related the history of the Riverkeeper organization, beginning with the Kennedy family and the Hudson River. The Riverkeep-

ers sponsor many programs worldwide for children, teens and adults, all of which are geared toward the appreciation for and the preservation of this wonderful natural resource.

Many of the statistics that Tonya quoted referred to the pollutants that are currently being discharged into the river downstream of Augusta. She also spoke about utilities, such as the Voegtle nuclear plant which is about to double in size and how they continue to be allowed to remove large quantities of water from the river.

Herb Burnham, LHA President, gave an update on projects that the Association has been involved in over the past year. Professor Larry Dyck, LHA board member and founder of the CoveKeeper program, spoke of the progress being made to restore the Twelve Mile River by removing three small dams and addressing the PCB situation. Pat Goran, LHA board member and past president, gave an update on the activities of the Georgia water planning councils.



Col. Edward J. Kertis, Commander of the Savannah District Corps of Engineers, gave his final presentation to the LHA as he has been assigned to a new post in Hawaii. Kertis explained that Lake Thurmond will be kept at or below 328 feet msl over the next several years while gate work is being done. He also noted that the Corps is doing an emergency drought study and that the Savannah River Comprehensive Study needs funds from SC and GA to match the Federal funds they have received.



Virgil Hobbs, Corps of Engineers Manager for the Hartwell Project, stated that, assuming normal rainfall, the lake should remain close to full for the near future. He also cited several projects that have been completed with stimulus money that was awarded to the Hartwell Project. These included construction of five new courtesy docks, new rest rooms/showers and the paving of several campground parking lots.



Many thanks to Ruth Anne Macaig and her Programs Committee for once again planning, organizing and conducting a very successful meeting

Anderson County Sheriff's Office Aims for Improved Safety for Lake Users

Submitted by Dan Ray

Over the years lake usage has grown and so has the importance of safety on the lake. As a result, the Anderson County Sheriff's Office now provides for improved safety by assigning officers to patrol the lake, according to the organization's website. At a recent meeting, Capt. Randall Creamer, Lt. Chris Scott and Det. Rusty Ables of the Sheriff's Special Operations Division staff and LHA's President Herb Burnham and Safety Chairman Dan Ray discussed joint safety and security concerns about the lake.

Anderson County's portion of Lake Hartwell acreage is 28,000 acres or about half of the entire lake and 39% of the shoreline. To patrol this large area, the

Sheriff's Lake Patrol operates a fiberglass boat powered by a 200 horsepower motor and equipped with the latest electronic and other equipment required for the job. It was obtained via a state grant which covered 95% of the cost and is valued at more than \$50,000. There is now a team of officers that have been specially trained and will be patrolling the lake this boating season. Working with this Patrol, the Sheriff's Office helicopter will provide an additional rapid response capability for emergency needs. Frequent visible presence of the Patrol is sure to have a significant positive effect on boater attitudes and safer operation. This is in addition to patrols by the US Army Corps of Engineers and the South Carolina and Georgia Departments of Natural Resources. Each of these has its own areas of primary responsibility but

are authorized to enforce all laws and regulations applying to the lake.

The Corps concern is primarily shoreline while the Natural Resource groups concern are mainly fishing and hunting in and around the lake.

Specific safety concerns mentioned by Sheriff personnel were underage drinking, boating under the influence of drugs or alcohol, negligent operation of boats and noise. Patrolling areas of known "party activity" will be emphasized. The Patrol is on the lookout for meth labs in some of the remote lake areas including the islands. Recognizable warning signs of this activity

are a strong ammonia odor or visible remnants of the drug making equipment. As in the past, theft or damage to boats, boating equipment and docks are still a major concern to the Patrol. Boaters are reminded that Anderson County has a noise ordinance that also applies on the lake.



Deputy Robert "Rusty" Ables (shown) coordinates patrol boat operations.

Anyone seeing or suspecting any of these activities or the violation of laws and/or regulations are urged to call 911. Your call will be referred to the appropriate enforcement personnel. If you live on the lake, give not only your street address but also the area of the lake where you live such as a channel marker number.

Sheriff's personnel also suggested that dock owners identify their docks with street names and numbers so that lake patrols can rapidly and accurately identify docks when responding to a call. Additionally, providing the dock with a strobe or blinking light to be turned on in case of an emergency will aid the patrol (boat and helicopter) in responding quickly.

Upstate Forever Presents 2010 Clean Water Champion Award to Dr. Larry Dyck

Submitted by Petra Massey

On February 4, Upstate Forever presented its 2010 Clean Water Champion Award to Dr. Larry Dyck, Professor Emeritus of Biological Sciences, Clemson

Mile Creek and to restore the free flow of the river which would allow clean sediment to cover PCB-tainted soil.

The trustees are carefully considering awarding a portion of the funds to several projects and while they have made no final decisions, due to public support for the project, they have now agreed to reconsider the merits of removing the third dam.

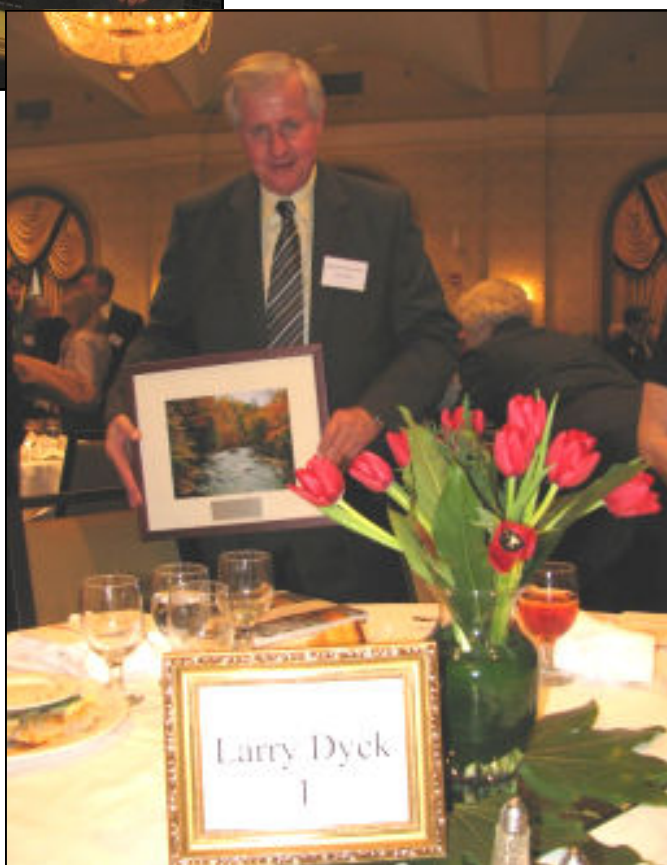
In accepting the award, Larry acknowledged the effectiveness of the partnership of LHA, Upstate Forever, Pickens Soil and Water Conservation District and Easley-Central Water District. He also expressed appreciation for the contribution of LHA members and many others who have actively supported removal of the third dam.

Please join us in thanking Larry for all he does “for the sake of the lake” and congratulating him on his well-deserved Clean Water Champion Award!



University. LHA is proud to have Larry on its board of directors and as Director of the LHA CoveKeeper Program. The award from Upstate Forever formally recognized Larry’s leadership in efforts to cleanup the PCB contamination in the Twelve Mile River system which flows into Lake Hartwell.

Larry has worked tirelessly for years to educate LHA members and the public regarding a unique opportunity to mitigate PCB contamination caused by chemical waste dumped into the river system from 1955 to 1987 by Sangamo-Weston, now owned by Schlumberger, Inc. The opportunity presented itself when Schlumberger signed a Consent Decree and agreed to pay \$11.8 million for damages to area fishery and natural resources. Nearly \$9 million of the settlement was assigned to South Carolina, with the rest for Georgia. Larry has led the campaign to persuade the Lake Hartwell Natural Resource Trustees to use a portion of the funds to remove the last dam on Twelve



Please Vote

The board of directors has nominated two LHA members to fill seats on the board. Cathy Reas Foster and Don Haynie have met the requirements for serving and if elected Cathy will serve as chairman of the technical committee and Don will serve as director-at-large.

Cathy Reas Foster

Cathy joined LHA in 1994 while a newcomer to the area and visiting a Lake Hartwell Antique Boat Show. She signed up for the Technical committee and was the chair of the Water Quality Volunteer Monitoring (LHA LakeWatch) subcommittee and represented LHA as a Director for the Lake and Watershed Association of SC. She was on the LHA board of directors for 6 years and was Second and First Vice President before being President in 1997. She was also the Newsletter Editor for 5 years before taking a break from the LHA committees because of her job and young children.

Cathy is a hydrogeologist and worked as an environmental consultant for 15 years. Currently, she is an environmental educator for SC DHEC and a coordinator for the Clemson Extension Master Naturalist program. She also volunteers with the Native Plant Society and the Foothills Trail Conference and is an avid hiker. Cathy, her husband and three daughters live on Lake Hartwell and enjoy fishing, swimming and boating.

Don Haynie

Don is a fourth generation Andersonian and a Lake Hartwell dweller since 1965. He attended Anderson College, Clemson University and N.C. School of Opticianary Science. After a short stay in the Optical business he founded Custom Steel and Wood a dock manufacturing company with his father Buford Haynie.

Don is still active in the dock business today with his son Brandon. He is married to Donna Stansell Haynie and they have four children, one son and three daughters and are expecting their first grandson this May.

Don is an active member of St. Johns United Methodist Church where he has served on the finance committee and the board of trustees. Don spends his leisure time playing golf and is an avid fisherman both in fresh water and offshore salt water tournament events. He is a 15 year member of The Lake Hartwell Association.

The LHA board is very pleased to have interested volunteers with the experience, qualifications and energy that these people have. The board recommends members vote YES on the ballot below and mail to

Lake Hartwell Association
 Director Election
 P. O. Box 2122
 Anderson, SC 29621

Or email your vote to
mail@lakehartwellassociation.org.

Official Ballot		
	YES	NO
Cathy Foster - Technical		
Don Haynie - At Large		

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.

PCB Clean-up Begins at Two of Three Dams

Submitted by Larry Dyck, CoveKeeper

As part of a Settlement for PCB damages to the natural resources of Lake Hartwell and Twelve Mile River, work has begun on the removal of two of the three dams. The presence of these dams impedes the natural flow of clean sediment into Lake



Workers begin removal of two dams on Twelve Mile River

Hartwell. Clean sediment is required to cover or encapsulate the PCBs that reside on the lake bottom. The encapsulation remedy is expected to prevent PCBs from moving from the sediments into the aquatic food chain where they become concentrated in the tissue of carnivorous fish. Fish Consumption Advisories have been in effect on Lake Hartwell since the mid 1970s and warn fishermen not to eat certain fish that are likely to accumulate PCBs in their tissues (go to <http://www.scdhec.gov/environment/water/fish/docs/advtb.pdf> for further information).

In a July 2009 hearing, Federal Court Judge G. Ross Anderson gave the responsible party, Schlumberger Ltd., one year to complete the dam-removal project. Since that time Schlumberger has constructed a landfill that will hold the contaminated sediment that is dredged from behind the dams. They also have in place two dredges that are poised to begin the dredging operations as soon certain permitting issues are resolved. In the interim, Pickens County, where Twelve Mile River resides, has filed a motion with the Court to intervene in the project. The County is concerned that the landfill and its contaminated sediment may eventually become county responsibility. The County has asked the Court to require Schlumberger to establish a trust-fund to offset the cost of maintenance in the future. The Court will rule on the motion by mid April.

In a separate negotiation, the Lake Hartwell Association together with Upstate Forever, the Pickens Conservation District and the Easley-Central Water District have sought to direct a portion of a \$9 million res-

toration fund to the removal of the third and final dam on the Twelve Mile River. The groups have argued that leaving one dam in place on the river will continue

to impede the natural flow of sediment need to encapsulate the PCBs in the lake.

In a recent on line-survey conducted by the South Carolina Department of Natural Resources, the public was asked to weigh-in on how the \$9 million in the restoration fund should be used.

SCDNR advocated the funds should be used for recreational fishing projects. By comparison, the Lake Hartwell Association and its partners argued that the funds should be used to stop the continued contamination of fish with PCBs. Once the dam project is completed so that PCBs become buried, then remaining funds can be used for recreational fishing projects. The public agreed with this point of view. Over 2,800 responses were logged by the survey. The highest percentage-response on the entire survey (53.4%) favored reallocation of funds for the 3rd dam project. Furthermore, of over 1,300 respondents who wrote comments on the survey, 65% said something like "...make the third dam the highest priority project. After that project is completed use the remaining money for recreational projects." Thank You LHA members for your input into the survey process...our voice was heard!

In the next weeks LHA and its partners will meet again with the trustees who control the Restoration Fund. On the table is a proposal to use restoration-funds to undertake a feasibility study for the removal of the third dam. We are optimistic that this project will be funded and the resulting data will support a larger proposal for removal of the dam while allowing the Easley-Central Water District to continue operation as a water-utility. When all the dams are removed, the recovery of the lake will be enhanced as clean sediment flows naturally down Twelve Mile River and buries PCBs in the lake. Questions? Feel free to email us at lakehartwell@charter.net.

Vogtle Electric Generating Plant Update

Submitted by Bill Elmore, Technical Committee

Southern Nuclear Operating Company's plans for two additional nuclear reactors for electric power generation at their

Vogtle Site near Augusta, Georgia are continuing to move ahead.

The most recent news was President Obama's announcement in late February that the Federal government was going to guarantee an \$8.3 billion loan for

Southern Nuclear to proceed with the project. Within a few days the U.S. Nuclear Regulatory Commission (NRC) sent out a notice of a public hearing at their headquarters to consider a request by Southern Nuclear to be exempt from requirements of a Limited Work Authorization (LWA) Permit which Southern Nuclear obtained in August 2009. The LWA permit restricts the types of construction activities that can be performed before a full construction permit is issued by NRC. This hearing was held March 3, 2010. At this time we do not have information on any decisions from that hearing.

LHA has contacted the Public Affairs Office of NRC about this project on several occasions. Our most recent contact was to ask if NRC would require Southern Nuclear to use reactor technology which would use less water than the currently planned Westinghouse AP 1000 design. We were told that the application for an operating license would only be considered based on the Southern Nuclear submittal, which utilizes the AP 1000 design. The operating license would

be issued or denied on this basis only. Since the NRC Final Environmental Impact Statement (EIS) determined that the amount of water consumed by the two AP 1000 reactors would not cause adverse impacts to the river and mitigation would not be required, it is

unlikely that the operating license would be denied on the basis of water consumption.

There have been a lot of questions and uncertainty about the plans to barge large reactor parts to the site on the Savannah River and the need for dredging if barges are used. Recent information has indicated that Southern Nuclear has

dropped plans to ship by barge in favor of rail shipments. LHA will continue to follow this issue in the event that Southern Nuclear should change their position. The Final EIS for the project failed to address the environmental impacts of dredging.

An NRC decision on the operating license for Vogtle is not expected until 2011.



Southern Nuclear Operating Company's electric power generation facility at Vogtle Site near Augusta (PHOTO: http://en.wikipedia.org/wiki/File:Vogtle_NPP.jpg)

LHA Website

Have you been to the Lake Hartwell Association website lately? There is a lot of good information on it. You can find contact information for government officials. Click on "Contacts" drop-down menu. There's also a fairly new page for "Community and Business Partners." You can find all of this and much more at

www.lakehartwellassociation.org.

LHA is Part of Keowee FERC Re-licensing Study Teams

Submitted by Mike Massey and Cathy Foster

The Federal Energy Regulatory Commission (FERC) granted the Keowee-Toxaway (K-T) Project a 50-year license in 1966 that expires in 2016. The Federal Power Act requires non-federal hydroelectric projects to re-license after the original license expires, with the new license being granted for 30-50 years. By August, 2014, Duke Energy will file its license application with the FERC to continue operating the Keowee-Toxaway Project. The FERC's license conditions for the K-T Project will ensure equal consideration is given to both power and non-power benefits such as water quality, water supply, cultural resources, recreation, fish and wildlife habitat enhancement and protection. A number of study teams have been formed to provide input towards the FERC licensing effort. LHA is part of that effort.

Why is this important to LHA? Simple. We live downstream in the same river basin and efforts required to get the new license will also require knowledge of Hartwell Lake impacts. Members of LHA expect to be placed on the Water Quantity and Operations Study Team (WQOST) and the Water Quality Study Team (WQST). This is good for us in LHA. We get to participate in some very significant studies for free – some of which we have been wanting for years.

Water Quantity and Operations Study Team - The WQOST has four major objectives.

1 – *Water Supply*. A review of the complete SRB will be conducted and estimated water needs for the next 50 years will be identified and used as input to the Basin Simulation models described in 3 below.

2 – *Statistical Lake Levels*. This study is primarily for Keowee-Toxaway but includes significant considerations for Hartwell Lake and lakes below it. Identify what the maximum, minimum and, most important, target lake levels should be. The data will also be used as input to the models in 3 below.

3 – *Basin Simulation*. Basin Simulation will be conducted from Bad Creek Reservoir (N. Carolina) through Lake Thurmond. The purpose is to simulate flow operations in a great number of variable situations and predict the best management operations

processes that may be considered for re-licensing. Two existing basin computer models will be improved and used for this study.

A. The HEC RES-SIM Model is the Hydrologic Engineering Center Reservoir System Simulation Model. It is the current Corps of Engineers Standard reservoir system model for long-term simulation and real-time operation. This is the basic water balancing model used by the Corps for the SRB. (see

<http://www.sas.usace.army.mil/SimpsonPDTPresentation.pdf>)

B. The CHEOPS™ model to analyze project generation operations in the lakes system. The model was configured to include reservoir operations, interbasin routing and the specific water rights and hydrologic conditions in the study system.

4 – *Drought Plan*. A drought plan primarily for Keowee-Toxaway will be completed with significant consideration of needs for Hartwell Lake and below.

Water Quality Study Team - The WQST has three major objectives.

- Collect dissolved oxygen and temperature data from the Project tailraces;
- Compare data collected from the tailraces to applicable water quality standards;
- Evaluate the need for modifications to Project operations if applicable water quality standards are not met. LHA members are also part of the overall K-T Stakeholder Team as a member of the Anderson Chamber of Commerce Water Resources Committee. The Corps of Engineers will be an integral part of the data gathering and model application.

The study teams are an excellent opportunity for LHA to obtain answers to a great number of questions we have had for years. A number of meetings have already been scheduled. We will keep you informed of the status as work progresses over the next few years.

Other info is available at <http://www.duke-energy.com/lakes/keowee-toxaway-relicensing.asp>

National Magazine Publishes Article by LHA Director

An article written by LHA Director and Legislative Committee Chairman for South Carolina, Mike Massey, will be published in the current edition of LakeLine Magazine due out this month. LakeLine Magazine is the North American Lake Management Society (NALMS) quarterly lakes information and education publication. LakeLine reaches an audience of all NALMS members and government agencies such as the US Environmental Protection Agency. Each issue contains news, views and interesting information on lakes and reservoirs and their watersheds and tributaries, from around your neighborhood and around the world.

The author was asked to provide his thoughts regarding current issues related to the water basins of the southeast. The article starts by declaring that the Southeastern water basins are under siege – from themselves. The current clamor for more water from a myriad of organizations for an increasingly wider variety of reasons is causing a greater awakening of that fact. There are generally three primary areas that rise to the surface when water issues in any state are discussed – comprehensive water plans, basin allocation studies and regional basin management councils.

Mr. Massey continues by describing a number of issues, concerns, actions and where possible, recommendations the states of the southeast are dealing with in an attempt to better manage their water resources for the future. Among items discussed are the process to determine the fair allocation of water among users; the importance of comprehensive water planning; establishing unique Basin Advisory Councils in each river basin; and issues related to federally managed basins (Corps of Engineers) with a highlight on economic considerations.

The author concluded the article with the following statement. “A state comprehensive water plan with a process to manage all water activities and resolve all issues in an integrated manner is essential to maintain clean, sustainable water in the future. An equitable method to measure usage and allocate water for all users, including neighboring states, is an essential part

of that plan. Basin Advisory Councils would assure stakeholders have a voice in how the water in their



basin is managed and create cooperation within and between each basin. Implementing these actions provides the opportunity to resolve many water issues and prevent future problems from occurring.”

Please go to <http://www.lakehartwellassociation.org/> to read the entire article.

Please Send Us Your Correct Email Address?

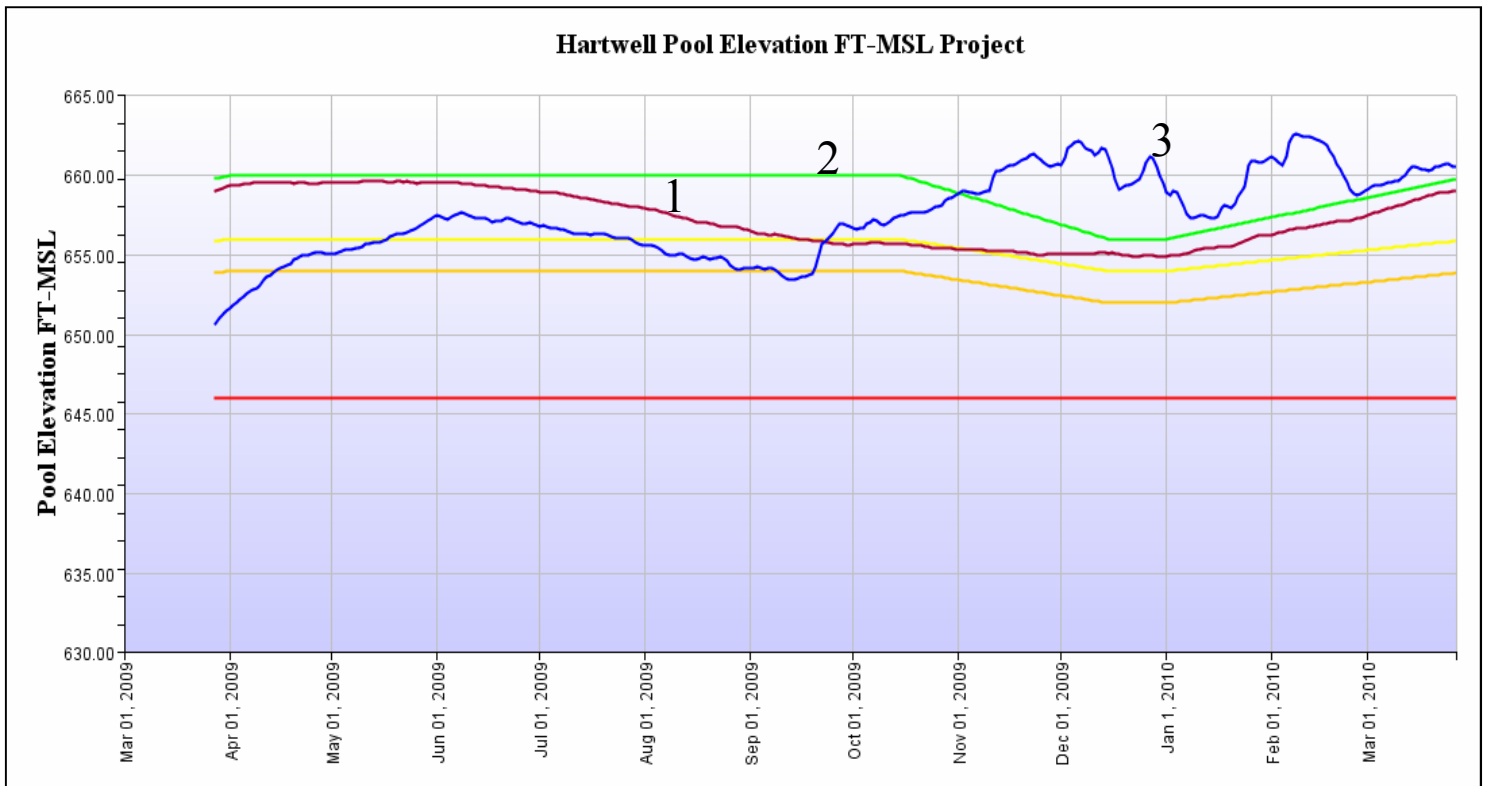
At this time we only have email addresses for about 61% of our members. The LHA board of directors cannot possibly express just how important it is for us to be able to contact members on short notice. We will only send you important information that we feel that you should know, such as PCB settlement issues, pending legislation, water level forums, etc. We will never sell/give away your email address. We only want it “For the Sake of the Lake.” Send it to

ForTheSakeOfTheLake@gmail.com

Did You Know

Submitted by Janet Clayton

- A new fishing pier is now open below the Hartwell Dam, giving anglers greater access to fishing areas adjacent to the facility on the Georgia side of the Savannah River. The pier will connect to an existing fishing pier on the dam and allow renewed public access to the original pier as well as provide new opportunities to fish below the structure.
- Safe Boating Classes are being offered by the Georgia Department of Natural Resources at the Hartwell Lake Office on March 20, April 24 and May 22. (770-535-5499)
- The Antique Boat Show will take place at the Hartwell Marina on April 17th.
- The Hartwell Dam Run will take place at Big Oaks Recreation Area on May 1st.
- The 6th annual Paddle Georgia event is scheduled to take place in Augusta from June 19-25. (www.garivers.org)
- There will be “Pre-4th” fireworks display at Big Oaks Recreation Area on June 26th.
- The ISJBA Jet Boat (Jet-Ski) Competition will take place August 13-15 at Big Oaks Recreation Area.
- The annual Lake Clean-Up will run from August 15 through September 15.
- New Courtesy docks have been installed by the Army Corps of Engineers at 18 Mile Creek access, Camp Creek access, Carters Ferry access, New Prospect access, Townville access and Spring Branch access.

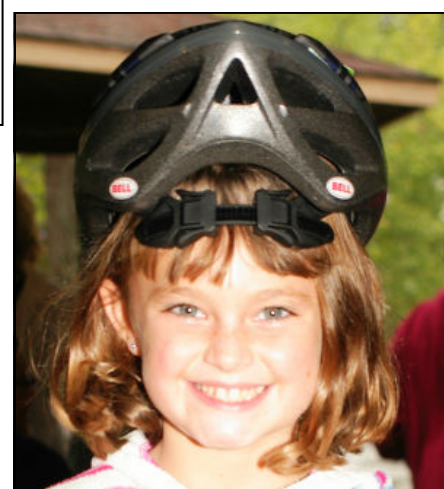


Legend: 1 = Average Level, 2 = Guide Curve, 3 = Observed Level
 (Source: <http://water.sas.usace.army.mil/cf/KavaPlot/KPlot.cfm?project=Hartwell>)

Merchants That Contributed Door Prizes to 2009 Cleanup Campaign

The 2009 Clean-Up Campaign was a great success and one of the things that made it a success were the many door prizes that were given by a number of people and businesses in the Hartwell Lake area. From all of us to all of you, we thank you very much.

Business	Name
Anderson County Safe Kids Coalition	Mr. Dwayne Smith
Anderson Keep America Beautiful	Ms. Michelle Strange
Applebee's Grill & Bar of Anderson	Mr. Robert Nix
Big Water Marina	Ms. Jane Davis
Captain Dave's Marine	Mr. David Strickland
Carolina Beer Company	Mr. Larry Lyles III
Catechee Golf Club	Mr. Mimi Barfoot
Dairy Queen of Hartwell	Mr. Bob Dyer
Enigma Custom Auto & Sound	Mr. Mike Hurley
Foothills Outfitters	Ms. Regina Tew
Fuddrucker's Restaurant	Ms. Crystal Starnes
Gordon's Marine	Mr. Gordon Moore
Harbor Light Marina	Mr. Larry Rich
Hartwell Marina & Boat Sales	Mr. Brant Tew
J's Marine & Camper Repair	Mr. Jack Olihan
Lee's Marine	Mr. Randy Lee
Longhorn Steakhouse	Mr. Tim Moriarty
Michael Craig Designs	Mr. Michael Craig
The Peoples Bank	Ms. Cheryl McCollum
Pinnacle Bank	Mr. Doug Cleveland
Pinnacle Bank	Mr. John Hilton
Red Lobster Restaurant	Ms. Carolyn Jernigan
Siblings Restaurant	Mr. Bill Bruce
Strickland Marine Center	Mr. David Strickland
The Dock Depot	Mr. Richard Henshaw
The Gray House	Ms. Kathy Stone
Tucker's Restaurant	Mr. H.R. Mohsseni
Wal-Mart of Hartwell	Ms. Susan Sears
	Ms. Lara Kaufmann



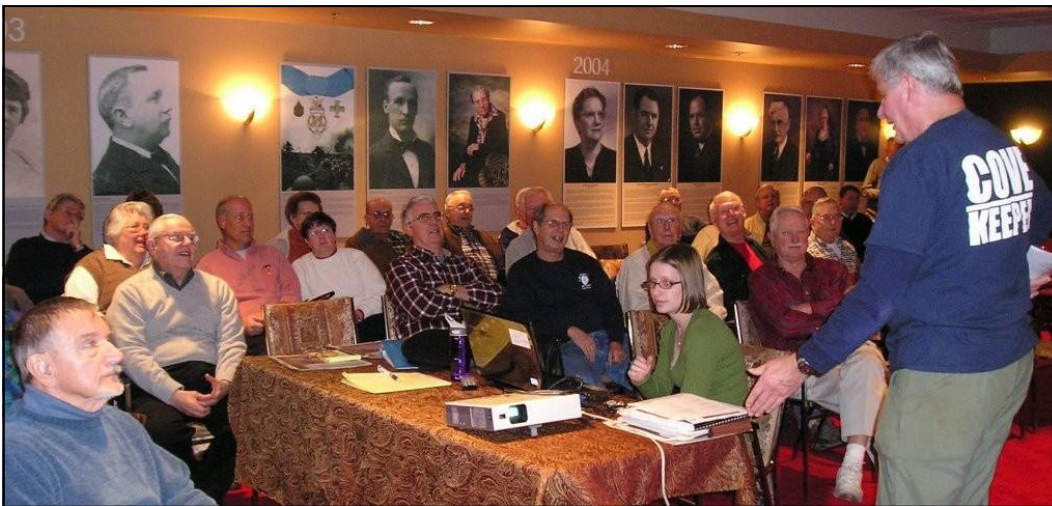
CoveKeepers Meeting Held at Anderson County Museum

The Lake Hartwell Association (LHA) is a non-profit organization with a membership of over 2000 families and businesses. Its main purpose is to protect the quality and quantity of water resources on Hartwell Lake and its watershed. The LHA sponsors many volunteer programs, one of which is the CoveKeepers. Their mission is to be good neighbors and to promote good lake stewardship.

CoveKeepers held their most recent meeting at Anderson County Museum on January 26. Professor Larry Dyck, founder and chairman of the program, introduced the main speaker for the meeting

which was Rebecca Spratlin from DHEC. She is the Watershed Manager for the Savannah River Basin (SRB) and the Saluda River. The majority of Ms. Spratlin's presentation included a very informative tour of the DHEC website specifically pertaining to 'WATER'. She demonstrated how to navigate through the many and varied offerings that are available including "clickable" maps of the watersheds, information on how to maintain your septic system, suggested outreach materials and water quality assessments, just to name a few. (www.SCDHEC.gov) Shoreline management and what can be done to manage storm water runoff was also a topic of discussion during the presentation. Ms. Spratlin made suggestions such as planting appropriate bushes or grasses in a buffer zone from the water's edge to several feet into the water or developing a rain garden around gutters to slow down the water movement.

Ms. Spratlin mentioned the EPA website and a re-



Dr. Larry Dyck introduces Rebecca Spratlin, DHEC, to the CoveKeepers in

cently modernized version of STORET. The STORET (short for STorage and RETrieval) Data Warehouse is a repository for water quality, biological and physical data and is used by state environmental agencies, EPA and other federal agencies, universities, private citizens and many others. The web address is www.epa.gov/storet. One should always be sure to check with the Corps of Engineers Ranger before making any changes or additions to the public area below the Corps property line.

The last topic of the evening was Section 319 of the Federal Clean Water Act which has in place a national

program to control non-point source pollution (NPS). Non-point source pollution is caused by the runoff from rain and snow-melt carrying pollutants into

waterways. The name 'nonpoint source pollution' comes from the concept that there is no single point from which the pollution comes; it comes from everyone and everywhere. Under Section 319 of the Clean Water Act, NPS pollution control promotes practices to protect watersheds and is largely voluntary.

Are you ready to volunteer or learn more about the CoveKeepers program?

**Leave us a message at
1-864-224-(LAKE) 5253**

or either

lakehartwell@charter.net

or

hartwelllakekeeper@yahoo.com

Thank You LHA Community & Business Members!

Please support the businesses that support LHA “for the sake of the lake!” Their contact information can be found on the “Community & Business Partners” webpage at www.lakehartwellassociation.org.

Anchor All Realty & Mortgage - Tammy Mobley
 Anderson Regional Joint Water System - Scott Willett
 Big Water Marina - Jane W. Davis
 Bill Brissey Real Estate – Bill Brissey
 Billy Howell Ford Lincoln Mercury – Billy Howell
 Brysan Utility Contractors, Inc. – Christopher Barber
 Byers Precision Fabricators – Roger Byers
 C. Dan Joyner Company – C. Dan Joyner
 Cateechee Golf Club - Pamela Camp
 Collins Dock, Inc. - Tammy Collins Smith
 Custom Steel & Wood - Don Haynie
 Dock Depot & Marine Supply - Richard & Georgeanne Henshaw
 Docks South LLC - Bill Griggs
 Dr. Andrew Adams, DDS
 Eric Nilsson
 Foxwood Hills POA - Bill Lewis, Mgr
 Harbor Light Marina - Larry Rich
 Harding Waterfront Construction - Pete Harding
 Hartwell Marina & Boat Sales - Brant Tew
 Ingrid Lee Realtors, LLC - Ingrid Lee
 Interiors by Penelope – Penny Holst
 Keller-Williams Lanier Partners - Jerilyn Wiech
 Kroeger Marine Construction, Inc - Dave Kroeger
 Lake Hartwell Sail & Power Squadron - Mary Orem
 Lakeside Chiropractic, LLC – Dr. Cindy Pradhan, DC
 Lee's Marine LLC - Randy Lee
 Leeward Landing Assn of Boat Dock Owners - Bobby Medlock
 Marine Specialties, Inc. – Richardson Garrett
 Mike Sanders Boat Storage - Michael W Sanders
 Paradise Point Inc - William Roberts
 Paul & Susan Meng
 Phil Jewelers – Phil Silverstein
 Portman Marina - Dave Freeman
 Robert & Connie Banks
 Robert T. Foster & Rudolph M. O’Neal III Public Accountants
 Save Our Lakes Now – Tommy Lee
 State Farm Insurance - Terence Roberts
 Superior Dock Systems - Scott Conquest
 Swaney's Point Association - Danny Shook
 The Bait Shop - Tim Marchbanks, Townville, SC
 The Regatta at Lake Hartwell Homeowners Association, Inc.
 T N Construction - Thad Strickland
 The Hartwell Sun - Robert Rider
 Upstate Forever – Brad Wyche
 USACE Hartwell Project - Tanya Grant
 View Point Lot Owners Association
 Ward S. Stone, Jr., Greenville, SC
 William M. Callahan, DDS

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 Members

Larry & Ann Chamblee, Mr. & Mrs. D. C. Cole III, Barry & Gail Duncan, Marc & Kathy Franks, Deborah Henderson, Kevin & Eugenia Heslin, Robert & Addie Jones, Mark & Maria McDonald, Tim McFall, William & Sylvia McMillian, Bo Phillips, Clark Sales Thomas & Rita Sexton, David Summer, Scott & Jan Weinberg

New Community & Business Membership

Byers Precision Fabricators – Roger Byers

Special Donations to LHA

Please join us in thanking LHA members who have made special donations. We are especially grateful for their generosity during these challenging economic times.

Connie Banks, Jack & Cindy Plating, William E. McCullough, Thomas R. & Doris Martin, Charles & Jane Martin, Mr. & Mrs. Jack Eldredge, A. V. Hudson, John & Marilyn Bowman.

Annual Passes Now Available

The 2010 annual passes for U. S. Army Corps of Engineers’ day use recreation areas are now available for purchase. The annual pass typically include boat launch ramps, designated swimming beaches, and picnic areas an costs \$30. The new passes are valid 12 months from date of purchase and can be obtained at the following locations: J. Strom Thurmond Lake Visitor Center, 510 Clarks Hill Highway, Clarks Hill, S.C., Hartwell Lake Visitor Center, 5625 Anderson Highway, Hartwell, Ga. and Richard B. Russell Lake Visitor Center, 4144 Russell Dam Drive, Elberton, Ga.

Alternative locations for purchasing passes in the J. Strom Thurmond Lake project area include Augusta Marine in Augusta, Sportsman’s Corner in North Augusta, Cliatt’s Crossing in Lincoln, and West Marine in Martinez.

Annual passes sold in 2010 will have a “2011” expiration date sticker. Visitors should hang the pass from the vehicle’s rear view mirror so the expiration date on the decal will show.

LAKE HARTWELL ASSOCIATION, Inc.
P. O. Box 2122
Anderson, SC 29621

NONPROFIT ORG
U.S. Postage
PAID
Greenville, SC
Permit # 1371



Email address: membership@lakehartwellassociation.org
Web Site: <http://www.lakehartwellassociation.org>

LAKE HARTWELL ASSOCIATION MEMBERSHIP APPLICATION
P.O. Box 2122 Anderson, SC 29621

*Spring
2010*

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 _____
(Family Membership Application Only)

Mailing Address _____

City _____ State _____ ZIP _____

Phone (H) _____ (W) _____

E-Mail _____

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

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

Give something back to the lake.
Select a committee on which you
would be willing to serve.

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

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

⇒ ⇒ ⇒ Your membership fees and donations are fully tax deductible. ⇐ ⇐ ⇐