

Life on the Lakes

Information about Lakes Hamilton & Catherine

Entergy, 100 Years Strong



Entergy's story began Nov. 13, 1913, with a pile of sawdust and a handshake between H. H. Foster, president of the Arkansas Land and Lumber Company, and Harvey Couch. Couch used Foster's sawdust as fuel to generate electricity for his power company. Since then, Couch's company – what is now Entergy Corporation - ranks among the largest U.S. utility companies, delivering electricity to 2.8 million customers in Arkansas, Louisiana, Mississippi and Texas. Entergy is celebrating its 100th anniversary throughout the year, commemorating the company's first 100 years of committed service, and preparing for another century of excellence. For more information, visit www.entergy.com.

The Dams & Entergy

The area near Hot Springs and Malvern was a

virtual wilderness in the 1920s when Harvey Couch, the founder of Entergy, then known as Arkansas Light & Power, began to investigate his dream of building hydroelectric dams on the Ouachita River. This was also a part of his "Helping Build Arkansas" program to bring new industry and jobs to Arkansas.

An engineering marvel in its day, Remmel Dam, named in honor of Army Col. H. L. Remmel, was completed in 1924 and

formed a lake 11 miles long with 1,290 surface acres. Couch named the lake after his daughter, Catherine.

The powerhouse at the dam contains three vertical hydraulic turbine generators with a total rating of 9,300 kilowatts, a staggering amount of electricity in an era when entire towns were served by a single six kilowatt generator.

In 1932, Carpenter Dam was built on the headwaters above Lake Catherine. It was named after Flave Carpenter, the pioneer era peace officer, who while searching for outlaws on the river, scouted the dam sites and recommended them to Couch. The resulting lake was 18.5 miles long and covered 7,200 acres. Couch named it Lake Hamilton in honor of his faithful attorney, C. Hamilton Moses, who assumed the presidency of AP&L following Couch's death in 1941.



Workers during the construction of Carpenter Dam in 1931



Harvey Couch



Catherine Couch

June, 2013

Find us on
Facebook

www.facebook.com/lifeonthelakes

 **Entergy**
THE POWER OF PEOPLE™

Shoreline Permitting



Compliance Inspections

Entergy Hydro is responsible for ensuring that landowners adhere to our permitting guidelines and Shoreline Management Plan. Last summer, we conducted a complete shoreline inventory of facilities on Lake Hamilton. We will conduct one on Lake Catherine this fall. Using photos, assessor records, permit documents and aerial photography, we are conducting a detailed evaluation of facility compliance. This evaluation will establish a baseline for all the facilities on the lake. Our goal is to make this an annual event.

When noncompliance is found, Entergy Hydro may not only take action to have the facility removed, but also impose fees for the unauthorized facility/activity. Some common violations include unpermitted personal watercraft ramps/lifts, relocations, deck additions, conversion of floating docks into fixed, and roof overhangs. After-the-fact permit processing fees are typically double the normal processing fee. Entergy strongly encourages lakefront property owners to ensure that they have a permit before doing any construction or placement of facilities along the shorelines of lakes Hamilton or Catherine to avoid any such penalties.



www.entergy.com/hydro
www.facebook.com/lifeonthelakes

Guideline Clarifications Frequently Asked Questions

Q: I would like to put up fabric to help block my boat from the sun. Is this allowed?

Entergy Hydro has reviewed this concern and, while our guidelines do not allow solid ridged walls on boat docks, we will allow transparent (see-through) fabric to be placed on up to one side of a boat stall - so long as it does not block visibility for boaters and create a navigational hazard.

Q: Are there any regulations on installing the suspended full boat covers that I am seeing on the lake?

We understand the appeal of these types of covers, but they create visual walls to a boat stall and as in the question before, there are always concerns about



blocking the visibility of approaching vessels and creating a navigational hazard. They could be allowed in certain situations, and Entergy Hydro has created a detailed "white paper" on these types of covers. You can find it here www.entergy.com/hydro under FAQs.

Q: My dock has a permit tag on it. Is that all I need right?

That is a good start, but everyone should have a copy of a written permit document (in your name) AND a permit tag on your shoreline facility. If your shoreline facility does not match the description in your permit document, there is a potential non-compliance issue and your permit may be voided or revoked.

Q: I plan to make changes to my facility. Do I need a new permit?

If you plan on making any modifications to your existing facilities that would change or alter the footprint, roofline, location or support structure of your facility – then you need to file for a permit request with Entergy Hydro PRIOR to any construction or placement. This includes the addition of personal watercraft lifts and ramps, converting a floating dock into a stationary (fixed) dock, rebuilding your dock (even if it is exactly the same) or adding roof extensions to make your stall longer.

Community

Garvan Woodland Gardens, features Family, Fitness & Fun in 2013

Garvan Woodland Gardens is putting the emphasis on family, fitness and fun in the gardens with more family-oriented events, walking groups, exercise classes, and holiday fun. The 210-acre woodland garden, situated on a pristine peninsula on Lake Hamilton, is part of the University of Arkansas' Fay Jones School of Architecture and offers both leisure and educational opportunities to more than 150,000 visitors annually.

From May 1 through September 30 Garvan Woodland Gardens will display 225 art glass creations by James Hayes, a native of Pine Bluff, in locations across its 210-acre peninsula on the shores of Lake Hamilton.

Visitors first enter the Garden of the Pine Wind on their tour of the main gardens. Designed by Asian garden designer David Slawson from Cleveland, Ohio, it is four acres of sculpted bridges, paths, water features and Japanese-inspired plantings. Within the Garden of the Pine Wind is the Weyerhaeuser Bonsai Garden and Learning Center.

More than 45 acres of the Gardens' peninsula have been formally developed to showcase thousands of native plants, as well as numerous seasonal flowering displays. The remaining acreage is left as a natural area with trails that take visitors deep into the woodlands where many types of native flora and fauna may be found.

From mid-February to mid-March, approximately 250,000 daffodils bloom. Add to that the annual Tulip Extravaganza, with 125,000 tulips plus another 30,000 spring bulbs, including hyacinths and crocus. April brings dogwood blooms and butterflies. The recently developed Perry Wildflower Meadow and adjoining perennial garden is also ablaze with color, gracing the western tip of the Gardens overlooking Lake Hamilton.

Hydrangeas take center stage in May and June in the Evans Celebration Garden and along Warren's Woodland Walk and Singing Springs Gorge, accompanied by the lush plantings of the English-style flowering border surrounding the Ellen Edmondson Great Lawn and Dierks Promenade.

All through the warmer summer months, the Gardens' cooling waterfalls and cascades provide a refreshing backdrop for thousands of summer annuals and tropicals. Fall brings a different type of bloom to the Gardens, with Fall Flower Days offering thousands of mums, asters, and pansies set off by the backdrop of autumn's color-rich hardwoods.

Bulbs of a different type dominate the landscape from mid-November through New Year's Eve each year, when over two million lights illuminate approximately 17 acres with original three-dimensional displays designed and created by Garden lighting and design technicians. "Holiday Lights," has become the Gardens' most popular annual attraction, with over 60,000 visitors passing through the gates in 2012.

The Hixson Nature Preserve, located on the northern side of the peninsula, contains 46 acres of woodlands with natural trails that provide panoramic views across Lake Hamilton year-round. The area is also home to the Gardens' bird sanctuary, where experienced ornithologists have identified more than 120 species.

Adjacent to the Hixson Nature Preserve is the 1.5-acre Evans Children's Adventure



Garden, boasting more than 3,200 tons of Arkansas-quarried boulders configured with numerous ledges, secret passageways, arches, stairs and ponds to encourage exploration and play. Surrounded by a curving, natural elevated bridge; the Adventure Garden's main feature is a man-made cave that is entered through and under a 12-foot waterfall. In addition to more than five miles of walking trails, one may visit a G-scale model Train garden and pick up some refreshments at the Gardens' Chipmunk Café.

Architecturally significant features include bridges, water features, the Anthony Chapel and the Garvan Pavilion, which was designed by E. Fay Jones, an apprentice of Frank Lloyd Wright and the 1990 recipient of the American Institute of Architects' Gold Medal for his design of the Thorncrown Chapel in Eureka Springs.

(Continued on Page 5)

Safety

Spring Boating, Planning for Emergencies



*Courtesy of Arkansas
Outdoors Weekly Newsletter
– April 17, 2013 Edition*

Arkansans will soon be heading to the water for fishing, boating, skiing and other activities. It is highly recommended to check the boat and its gear. When you head out, it is a good idea

to leave a boating plan with someone on shore, said Bob Cushing, boating education coordinator for the Arkansas Game and Fish Commission. But emergencies do arise. Things can happen on the water, and through no fault of yours. The boat's motor can quit unexpectedly. A storm can come up quickly. "It just makes common sense to tell someone at home or at a boat dock where you are going, when you expect to return and your cell phone number. By all means, take a cell phone along if you have one," Cushing said. Pilots are required to file flight plans. Boaters can do the same, though it's not required and need not have as much detail as required from aviators.

The basics:

- * Put it in writing. It's more reliable than word of mouth.
- * Leave a note with a person at home or a neighbor of a relative if all the family is going.
- * Tell where you are going and what ramp you will launch from.
- * Leave a description of your vehicle with license number and the boat with its registration number.
- * List the people who will be with you.
- * Give your cell phone number. Sometimes in remote areas on the water, cell phones don't function. Your chances these days, however, are good that they will work – to call and to receive calls.
- * Tell when you expect to return.

If you are on a canoe or kayak float outing, give the information for the starting point and ending point and for shuttle vehicles. By leaving a boating plan, your chances improve greatly of someone being alerted if you don't return when you expected to. With a plan, a search can begin soon after the return time passes. Without it, it could be overnight or longer before someone goes looking for you and your stranded boat.

Anyone born on or after January 1, 1986, must take and carry proof of passing an approved AGFC boating education course in order to operate a motorboat on Arkansas's waters. Another suggestion from Cushing is to take a boating education class. It's free, and classes are conducted all over the state by the Game and Fish Commission and volunteer instructors. You may know how to handle that boat efficiently and safely, but there is always something more to learn.

Check the AGFC web site, www.agfc.com, for boating education information. An option is to take the online boating education course, and there is a fee of \$24.50 for this. You will still have to take the test in person at a testing site.

Boater's Education Scheduled

Living in Arkansas allows you access to some of the most beautiful lakes around. Taking one day out of your busy schedule to attend a boater's education course might just help you to avoid an accident, potentially saving your life or the life of someone you love. These classes are a good idea for all boaters. But if you were born after 1985, a boating education card is mandatory. Below is where you can get one.

Courses are being offered in our area at:

Power Boats: (www.powerboatsinc.com)

Boating Education Classes:

June 8: 9am - 3pm (with lunch provided)

July 13: 9am - 3pm (with lunch provided)

"Women on Water" (hands on course):

June 9: 1pm - 3pm

July 14: 1pm - 3pm

(Free but you must have passed boaters education.)

Lake Catherine State Park:

June 1: Noon - 6pm

June 15: Noon - 6pm

DeGray Lake Resort State Park:

June 3: 2pm - 9pm

June 18: 2pm - 9pm

You can also take advantage of Boat Arkansas – the official online course (small fee applies). But you will still have to pass the test in person at a testing site to receive your card. Go to the Arkansas Game & Fish website to find a testing site near you.



Preparedness

Emergency Preparedness

What to do...

...if you notice a problem at a dam – call 911. Local authorities know who to contact when there are concerns with the local dams on the Ouachita River.

...if you notice a river/lake is unexpectedly high and rising on a clear day – immediately head for higher ground and call 911 to report the situation.

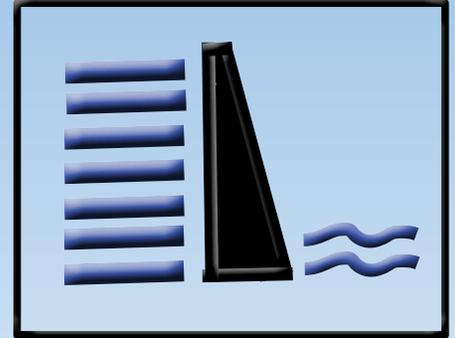
...if a road is covered with water – remember that floodwaters are deceptive. As the old saying goes, “Turn around, don’t drown.” Roadways can become compromised by floods and these weak spots are not always visible. Avoid flooded areas if you can.

...if your car stalls in a flooded area – abandon it as soon as possible. Floodwaters can rise rapidly and sweep a car - and its occupants - away.

...if a flood traps you in your house – move to the second floor and, if necessary, to the roof. Take warm clothing, a flashlight and portable radio with you. Then wait for help; don’t try to swim to safety. Rescue teams will be looking for you.

...if you receive a reverse 911 call – first, take it seriously. Next, listen carefully and follow all of the instructions from the phone call. If it is to warn you of a flood, it may tell you to stay in your home or head to higher ground immediately. Do so as quickly as possible.

Entergy Arkansas Inc. monitors Carpenter and Rempel dams 24/7, but if you notice an unusual situation concerning the lake levels or the dams, call 911 to report it. Thanks to FEMA publication 593-237B (9/90) for information used in this article.



Community, cont.

Garvan Woodland Gardens ... continued from page 3

The six-story Anthony Chapel, with its intricate cross-beam design and massive floor-to-ceiling windows, was designed by the Jennings & McKee firm and is reminiscent of former partner E. Fay Jones' award-winning Thorncrown Chapel, only much larger. Nestled among tall pines and decades-old oak trees and overlooking Lake Hamilton, the Anthony Chapel fulfills the dual goals of incorporating nature into the design along with using exceptional materials and craftsmanship.

In addition to being recognized as one of the Top Five Most Spectacular Gardens in America in 2012, the Garden of the Pine Wind has been named as the eighth best Asian garden in North America by the Journal of Japanese Gardening in 2008.



The Gardens are open from 9 a.m. to 6 p.m. daily, and the Chipmunk Café is open from 11 a.m. to 3 p.m. daily. The Garden Shop, located inside the Pratt Welcome Center, offers a selection of garden-inspired gifts, art, and jewelry. Special operating hours of 12 p.m. to 9 p.m. are in effect during Holiday Lights. The Gardens are closed only during the month of January, and on Thanksgiving and Christmas days. Admission prices are \$10 adults/\$9 seniors/\$5 ages 6-12/Free ages 0-5. For more information, visit the Gardens' website at: www.garvangardens.org or call (501) 262-9300 or (800) 366-4664. Also find the Gardens on Facebook at: www.facebook.com/garvangardens.



Entergy Arkansas, Inc.
 Hydro Operations
 141 West County Line Road
 Malvern, Arkansas 72104

Help Us With Our Mailing List

Please contact Entergy Arkansas, at 844-2148 or send an e-mail to kbogar1@entergy.com with any corrections.

What Requires a Permit?

All shoreline facilities, structures and ground-disturbing activities on Entergy Arkansas, Inc. Project 271 lands or water require a permit from Entergy Arkansas prior to installation or placement. Some of the most common types of facilities, structures and activities that require a permit include:

- ✓ Boat docks
- ✓ Piers
- ✓ Landings
- ✓ PWC ramps
- ✓ Decks
- ✓ Walkways
- ✓ Boardwalks
- ✓ Bridges
- ✓ Boat Ramps
- ✓ Steps
- ✓ Seawalls
- ✓ Riprap
- ✓ Fill/dredge
- ✓ Excavation
- ✓ Roads
- ✓ Waterlines
- ✓ Buoys
- ✓ Utility facilities
- ✓ Water withdrawal
- ✓ Heat/Air exchange piping
- ✓ Inflatable platforms/trampolines
- ✓ Boat lifts (when outside the slip)



Any changes to the footprint, roof line, support structure or change in the size of an existing facility requires a new application/permit.

To learn more about Entergy Arkansas' shoreline facility permit program and the requirements and specifications for private facilities on Entergy Arkansas' property, visit our web site at www.entergy.com/hydro or contact us at (501) 844-2148.

Do you know of lakefront property owners who are not receiving this publication?

Send their names and addresses & emails to:

Entergy Arkansas, Inc.
 Hydro Operations
 141 W. County Line Road
 Malvern, Arkansas 72104

Editors:

Bobby Pharr
bpharr@entergy.com

David Batson
dbatson@entergy.com

Kimberly Bogart
kbogar1@entergy.com

Flow Release Information
www.entergy.com/hydro
 (501) 844-2125

