

# The Speleograph

Lake Ozarks  
Grotto

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Looking out of the entrance of Kiesewetter Cave

The Speleograph, a bi-yearly publication, is created by the Lake Ozarks Grotto. All articles and other information is donated by cavers and individuals who have an interest in caving. For more information please visit us on the web:

[www.lakeozarksgrotto.com](http://www.lakeozarksgrotto.com)



# Cave found during construction on route 163 bridge near Columbia, Mo

BY EMILY ANNE GRIFFITH

Apr 25, 2023



A cave found amidst the construction of the Bonne Femme Creek Bridge on Highway 163 has halted progress for further exploration of the void.

A Missouri Department of Transportation foreman discovered the void on April 11 when he was excavating for the foundation of the new bridge. The area was previously obstructed by a concrete embankment that was supporting a portion of the bridge.

Dye tracing has proven that the cave is hydrologically connected to the Devil's Icebox cave system in Rock Bridge Memorial State Park, Roxie Campbell, a park naturalist with Missouri State Parks, said.

The Cave Research Foundation, a nonprofit organization facilitating the research, protection and conservation of caves, has plans to map the cave. MoDOT is also conducting coring work to determine if more cavities are present and how best to move forward with construction.

The cavity was not present at the time of the initial testing for the bridge design process, Jeff Kroner, a reservoir engineer with MoDOT, said.

Bridge construction on Highway 163 near Columbia, Mo.



## Ancient Skeleton Found in Mexico Cave Threatened by Train

MEXICO CITY (AP) -- A prehistoric human skeleton has been found in a cave system that was flooded at the end of the last ice age 8,000 years ago, according to a cave-diving archaeologist on Mexico's Caribbean coast.

Archaeologist Octavio del Rio said he and fellow diver Peter Broger saw the shattered skull and skeleton partly covered by sediment in a cave near where the Mexican government plans to build a high-speed tourist train through the jungle.

Given the distance from the cave entrance, the skeleton couldn't have gotten there without modern diving equipment, so it must be more than 8,000 years old, Del Rio said, referring to the era when rising sea levels flooded the caves.

"There it is. We don't know if the body was deposited there or if that was where this person died," said Del Rio. He said that the skeleton was located about 26 feet underwater, about one third of a mile into the cave system.

Some of the oldest human remains in North America have been discovered in the sinkhole caves known as "cenotes" on the country's Caribbean coast, and experts say some of those caves are threatened by the Mexican government's Maya Train tourism project.

Del Rio, who has worked with the National Institute of Anthropology and History on projects in the past, said he had notified the institute of the discovery. The institute did not immediately respond to questions about whether it intended to explore the site.

He stressed that the cave -- whose location he did not reveal because of a fear the site could be looted or disturbed -- was near where the government has cut down a swath of jungle to lay train tracks, and could be collapsed, contaminated or closed off by the building project and subsequent development. "There is a lot more study that has to be done in order to correctly interpret" the find, Del Rio said, noting that "dating, some kind of photographic studies and some collection" would be needed to determine exactly how old the skeleton is.

Del Rio has been exploring the region for three decades, and in 2002, he participated in the discovery and cataloguing of remains known as The Woman of Naharon, who died around the same time, or perhaps earlier, than Naia -- the nearly complete skeleton of a young woman who died around 13,000 years ago. It was discovered in a nearby cave system in 2007.

President Andrés Manuel López Obrador is racing to finish his Maya Train project in the remaining two years of his term over the objections of environmentalists, cave divers and archaeologists.



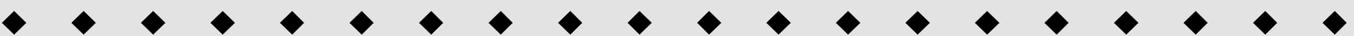
Further studies are needed to date the skeleton. (AP: Octavio del Rio)

They say his haste will allow little time to study the ancient remains. Activists say the heavy, high-speed rail project will fragment the coastal jungle and will run often above the fragile limestone caves, which -- because they're flooded, twisty and often incredibly narrow -- can take decades to explore. Caves along part of the coast already have been damaged by construction above them, with cement pilings used to support the weight above. The 950-mile Maya Train line is meant to run in a rough loop around the Yucatan Peninsula, connecting beach resorts and archaeological sites. The most controversial stretch cuts a more than 68-mile swath through the jungle between the resorts of Cancun and Tulum. Del Rio said the route through the jungle should be abandoned and the train should be built over the already-impacted coastal highway between

López Obrador abandoned the highway route after hotel owners voiced objections, and cost and traffic interruptions became a concern. "What we want is for them to change to route at this spot, because of the archaeological finds that have been made there, and their importance," Del Rio said. "They should take the train away from there and put it where they said they were going to build before, on the highway ... an area that has already been affected, devastated."

Octavio del Rio has a photo that shows fragments of a pre-historic human skeleton partly covered by sediment in an underwater cave in Tulum, Mexico, Sept. 10, 2022. The cave system was flooded at the end of the last ice age 8,000 years ago, according to an archaeologist and cave diver Octavio del Rio, and is located near where the government plans to build a high-speed tourist train through the jungle. (Octavio del Rio via AP)

—Submitted by Alberta Zumwalt



## [Goodwin Workday 4/29/23](#)

Klaus Leidenfrost contacted me about a upcoming work trip to Goodwin Sinkhole and Cave. I didn't have anything planned for that day so I decided to venture out. I arrived at the site around 7:30 am. I unlocked the gate and did a quick look around to see if anything had been disturbed. In November of 2022, thieves broke into the property and stole pretty much everything that was there. I was checking that did not happen again. Everything looked good so I unloaded my truck and started working.

I started on tearing out the old safety fence next to the road. It was over grown with weeds and thorny rose bushes. After the fence was removed, I installed a brush blade on my weed wacker and trimmed back the brush so a new fence could be installed. Klaus and Jean had arrived and started burning a brush pile down by the cave entrance that was left from a previous trip. They were having problems getting it to burn but finally got it going.

I fired up the mower and mowed the road down to the bottom of the sink. Everything worked really well. After that was finished there was more mowing done on top around the property. The grass had really grown so it took some time to get it done. All of us stopped for lunch around 12:00. We ate lunch and talked about anything and everything. It was a beautiful day and we were all enjoying it.



Cleaned and ready for the new fence



New fence and sign installed

After lunch was over and we were rested, we started working on installing the new safety fence next to the road. We hooked the new fence onto the starting post and then as I pulled it tight, Klaus would wrap a zip tie's on the existing posts. Everything worked out well and in no time it was done. Then we tackled the gate problem. The gate is two sections, 6' long each. When thieves broke into the property in November 2022, they damage one gate by hitting it with a vehicle. We took that damaged gate off and installed a new one to protect the property.

With the gate done, it was time to call it a day. We were all getting tired and after a day of work we had the sink looking nice!

Another caver gone.....

# Craig Alan Smith

## (August 5, 1954 - April 28, 2023)

Craig Alan Smith passed away peacefully on Friday, April 28, 2023 in Osage Beach, MO.



Craig was born August 5, 1954 in Fort Leonard Wood, MO to Wayne and Helen Smith. Craig's father was in the Air Force and the family spent some time living in Japan, among other places. Craig attended School of the Osage, graduating in 1973. Craig excelled at track and basketball and set a school record for the one mile run.

Craig joined the Navy after high school and spent four years as a communications specialist in Sugar Grove, West Virginia and Adak, Alaska. He held various jobs after the Navy, settling back in the Lake Ozark area.

Craig had a fun-loving spirit and a passion for adventure and the outdoors. Craig was an avid sports fan and in particular of the Kansas City Royals and Kansas City Chiefs teams. He also loved hunting, caving, and learning all he could about the natural world around him. He was an active member of the Lake Ozarks Grotto. Craig was intelligent with an amazing knack for remembering details. Craig loved being with family.

Craig is survived by his older brother Mike (Kathleen) Smith, older sister Melanie (Ted) Windels, younger sister Kim (Joe) Luca, and younger sister Kristin (Greg) Gonder. He also had many nephews, nieces and cousins.

A graveside service with full military honors will be held at Lake Memorial Gardens Cemetery in Osage Beach, Missouri at 1:00pm on Saturday, June 3, 2023. A celebration of life will immediately follow at the Senior Activity Center at the Lake, located at 748 Highway D in Osage Beach, Missouri.

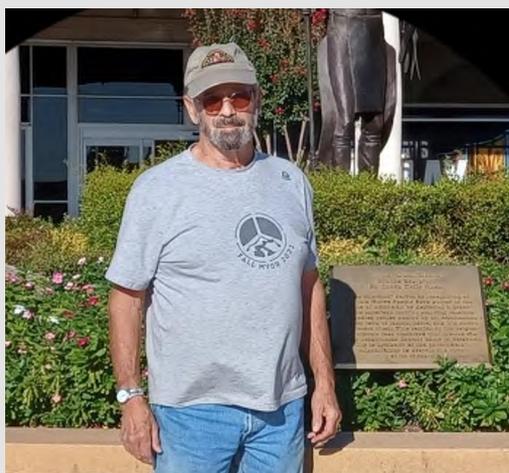
In Lieu of flowers, donations can be made in Craig's name for cancer research.

## The Speleograph

### The Funeral of Craig Smith

A small crowd gathered at the Lake Memorial Gardens Cemetery in Osage Beach on Saturday, June 3<sup>rd</sup>. The ceremony started at 1 pm with full military honors by sixteen Naval personnel. A minister read the obituary, a man sang a song and a flag was folded and presented to family. There was a much larger gathering for the Celebration of Life which followed, at the Senior Activity Center where a luncheon was catered by Bandannas. Several people shared memories with the group. One of Craig's nephews told an interesting story. The nephew said he and Uncle Craig had decided, on the spur of the moment, to drive to a mountain in Arkansas. They encountered an eagle which flew next to their car for a while, then swooped down to grab a fish with its talons from a lake, and came back up with the fish and flew next to their car, again. He said it was an incident that they would never forget and made the whole trip worthwhile. One of Craig's younger sisters said that he taught her the abc's, to count to 100 and had started to teach her to read, all before she started kindergarten. Craig's older sister, Melanie, introduced four women who had taken care of Craig for the three months that he was at the home. They stood and sang Amazing Grace. It was a nice tribute.

– Alberta Zumwalt



**Billy John Howard**  
**NSS 32162 CO - FE**  
**December 17, 1950 - April 9, 2023**

By Ron Lather NSS 28835

We have lost a very dear friend, caver, exceptional brick mason, cave gate designer & builder, sometime prankster, beer drinking, kayaking and passionate man in Billy. He was my best man at our wedding and one of my closest friends. Billy was a very passionate man when he believed in something and would often explain his view by saying "... and I'll tell you why...". Sometimes we didn't always want to hear why, but Billy was going to tell you anyway.

Billy passed away peacefully down at the Elk River in southwest Missouri where he and wife Beth built their retirement home and moved in 2011. They lived very close to the river and of course it would flood several times a year so Billy would clean up the flood debris and wait for the next flood, of course complaining about the debris the whole time.

Billy was a union brick mason his whole life in the Tulsa, Oklahoma area where he ran his own business for over 30 years. He would say he learned masonry from the best brick mason in the state of Oklahoma, his father "Smokey". He did all types of masonry from new construction to restoration to a lot of creative work for the Chickasaw Indian Nation. One project for the Nation was an eight foot rock water fall into a rock stream that ran for about 20 feet then recirculated the water back to the water fall. Calling on his masonry experience he designed and built a block and mortar home to withstand the wrath of the Elk River.

Billy met his wife Beth in 1989. She introduced him to caving and his life was changed forever. While in the Tulsa Regional Oklahoma Grotto he was conservation chairman for several years. In 1996 he earned the Presidential Award for Stewardship from the Nature Conservancy. He earned the NSS Conservation Award in 1997.

In 1998 he attended a week long course in Tennessee on the 'Construction of Bat Grids' put on by Bat Conservation International. He designed and constructed several cave gates to help protect endangered bat populations and the caves themselves. One such cave we had a total of 8 gates, some were 21 feet tall bat grid gates inside the cave and others were massive exterior bat grid gates over pit entrances. He would devise a cable and bucket system for each cave to get materials to the entrance as they were always down a long hill. This work on caves and gates got him nominated for and awarded a Fellow in the NSS in 1999.

My wife Lorely and I spent a lot of time with Billy and Beth camping, caving and at their homes in Tulsa then the Elk River. Billy was on my survey team as the lead person who set stations and did back sites as I sketched the passage and took notes. On one survey in a maze we surveyed the main through passage of 1100 feet with 48 side passages. He looked at me and said are we going to be able to do this and I said it is going to take a long time and a lot of survey stations. It took 3 years, 251 survey stations with 21 different surveyors and more than 4400 total feet of surveyed passage, but we got it done.

I was also on several cave gating projects which Billy ran like a well oiled machine with him in charge since he had devised the master gating plan. Billy did not want a lot of hoop-la for his passing but I felt compelled to tell the NSS of the passing of a very special old friend and cave conservator. The saying goes “ it takes a long time to grow an old friend”. We will miss you “old friend”.



Billy and Ron in an Arkansas cave (1993)



Billy building a bat grid gate (2001)

## The Bats and the Bees

Most of us have heard from early adolescence about the birds and the bees. Hopefully, this was from a loving and caring parent, but some no doubt, had to figure things out for themselves through trial and error. How many people know about the bats and the honey bees?

Bats and Honey Bees both play a vital role in a healthy environment and ecosystem. As most of us in the caving community know, bats are great at insect control, consuming up to half their weight in mosquitoes each night. It is hard to imagine a camping trip along a stream without them.

Honey Bees are great pollinators, helping to pollinate our food crops. Much of the foods we eat, such as fruits and vegetables, rely on these industrious helpers. There are people who make a living transporting hundreds of their beehives to areas of the world where they are needed to help keep our food supply going.

Back around 1985, the author of this article and a caving buddy, initials are D. H., went into a cave he thinks was on the Wet Glaize. The name of the creek is not certain. The cave is a long one and involves a lot of crawling with some of the passage less than one foot high. There are beautiful formations and there was no sign of vandalism. Deep in the cave, there is a hole in the floor of the passage which has a sizable room. One is actually over this room before coming upon the hole in the floor. One can only guess at the thickness of the floor supporting their weight. On our way out of this cave, we noticed a lot of bats, perhaps thousands of them. These bats appeared to be gray in color. The author of this article has often wondered if these were the endangered species Gray Bats. If it were, it was a large colony and would be great if a colony of Gray Bats were still using the cave. According to information he has read in the past, there are only a few caves that are suitable for bats to use as a maternity ward. This may include temperature and humidity. It also goes without saying that lack of human contact would be very important, such as permits or access allowed only certain times of the year. There are two caves that come to mind that are restricted, either by the time of year that access is allowed or by having to obtain a permit. One such cave is McDowell Cave, located in the Lake of the Ozarks State Park. It is a maternity ward and entry is denied April 1st through October 31st. Another cave is Bat Cave in Miller County, the last of many caves on the Big Tavern system. It also is a maternity ward. Fortunately, for the bats living there, human access is extremely difficult with the entrance being forty foot up in the bluff. Only the most serious scientific study would justify a trip into Bat Cave. As stated at the start of this article, bats are excellent at insect control. They accomplish this without using toxins and poisons that kill everything in sight, including the industrious Honey Bee.

Honey Bees face a lot of challenges, some from manmade sources and some from the natural world. There are a lot of great books on bee keeping, such as "First Lessons in Bee Keeping" by Keith S. Delaplane and "The Beekeepers Bible" by Stewart, Tabari and Chang. These go into great detail about anything one would ever need to know about Honey Bee disorders, parasites and nest invaders. The balance of this article will focus on the first-hand experience of two family members, Priscilla and David. Priscilla is the sister of the author of this article and the matriarch of the clan. David is her son and is her fellow apiarist (beekeeper). They decided to get into Honey Bees back in 2015. They both wanted Honey Bees and their own source of honey. Priscilla and David both agree that beekeeping is a lot of work. "No honey compares to the local honey made from various native wild flowers, bushes and trees." According to The Old Farmer's Almanac, honey is an anti-viral, anti-bacterial and an anti-inflammatory. It is a health food.



## The Speleograph

One summer afternoon as she sat on the swing in her yard, Priscilla notices a bird, a Summer Tanager, that has built its nest in the tree above her within a few yards of the beehive. The Tanager flies down to the beehive and helps itself to a snack, a Honey Bee. She can only laugh as there are tens of thousands of bees. A bird or two does not pose any serious threat to the health or stability of a colony of Honey Bees.

There are serious threats to a weakened colony of Honey Bees. Wax Moths are such a threat. If the colony is strong, they will fight the Wax Moths off. However, in a weakened colony, they can destroy the colony. They do this by eating the wax that covers the brood, which is the next generation of Honey Bees. With the protective wax gone, the brood dies. More on this later.

Back at the start of their beekeeping experience, Priscilla and David, along with the help of a fellow apiarist, split their first colony of Honey Bees. This is done when the colony starts to get overcrowded and is in danger of swarming. Their Honey Bees swarmed three times that year, in spite of their efforts.

When splitting a colony, it is wise to put on a bee suit, making sure there are no openings for the bees to get into. Some use a smoker before opening the hive. This calms them and they go to their honey and eat it instead of stinging. The bees think things are on fire so they fill up on honey to get ready to swarm.

In splitting a colony, you take a Queen cell with the larvae, some honey and some worker bees and put in a hive box. When the Queen has had time to hatch, you check on her by opening the new hive. If successful, "Long Live the Queen."

Once, while going up to the bee hives, I saw what I thought was two angelic beings. Then I realized that it was Priscilla and David tending to their Honey Bees in their white bee suits.

In the summer of 2022, Priscilla and David's bees swarmed. In years past, the colony always rebuilt and thrived. At one time, they had three hives. This time was different. After swarming, the remaining colony could not rebuild and fell victim to Wax Moths. The colony all died. It is not known at the time if they will try again. The author of this article certainly hopes so.

Having family members in the Honey Bee hobby certainly raises awareness on our actions that affect our relationship to the world around us. For instance, I am a lot less likely to use pesticides such as Seven Dust for fear that a Honey Bee may land on the plant. I have learned that all areas do not need mowed to look nice. Having native wild flowers and native grasses are beautiful in themselves.

—Buzz Caldwell

### Authors note:

The use of maternity ward instead of maternity colony is intentional. This is done to emphasize the importance of not disturbing these mammals as they give birth and nurse their young.

Some people may think that if they are quiet and move slowly through the cave it would be alright. Try doing that in a maternity ward where a human female is giving birth and nursing their young.

Unless you are a close family member you would be shown the door very quickly.



## Potatoes and Caves

April 7th, 2023. Good Friday was to be the day that we plant our potatoes. March 17th, St. Patrick's Day, had been too cold with a morning low of 25 degrees. It was just entering into the dark of the moon with the full moon being at 12:35 a.m. on April 6th. So, with the ground being prepared, it was time for action.

The author of this article, henceforth, known as Buzz, along with his sister Priscilla and two of her granddaughters, Juliann and Sally Ruth, were to do the planting. So far so good. On Wednesday, April 5th, Priscilla wanted to plant on Thursday afternoon, after Juliann and Sally Ruth would be home from school. She may have something else to do on Friday. Not wanting to be doing all the planting myself, I agreed. The seed potatoes were put in the ground Thursday afternoon, eleven hours into the dark of the moon.

Friday morning, April 7th, after Bruno and I took our mile and a half walk, I go over to Priscilla's house. She is fixing her breakfast. I ask her if she had anything planned. She said no. I suggested that we take a drive down to Bat Cave at the mouth of Big Tavern Creek. The redbud trees were coming out and some of the dogwood trees were just starting to bloom, so it would be a beautiful drive. She agreed that was a good idea.

We start out and stop at Eagle Stop in Tuscumbia for some snacks. I then realize that I forgot my walking stick and forgot to put on my outdoor shoes for hiking. And Priscilla forgot her glasses and her walking shoes and we both realized that my pair of binoculars would have been nice. We did not turn back. Upon reaching the mouth of the Big Tavern, we parked. There is a nice primitive camping area there. It had been a long time since either of us had been there. The old swinging bridge had been replaced with a steel bridge. We could see where the old bridge had been. The concrete piers were still there. There were, not saplings, but young trees growing up in the bank where the old bridge had been. Yes, it had been a long time, indeed.

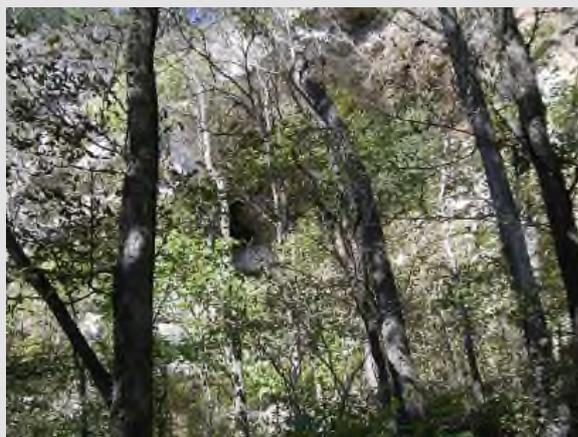
We walked across the bridge and to the right. Not too far and the Conservation property ends and private property starts. We looked up at the bluffs in awe. We also noticed several different kinds of flowers which Priscilla could identify. We then went back to the bridge and continued on to the county road which goes by Bat Cave. Somewhere between the bridge and Bat Cave is a small cave called Lantern Cave, with 110 feet of mapped passage. It was mapped June 18th, 1960 by L. Amos, D. Webster, A. Johnson and P. Johnson. We did not find it.

Upon reaching Bat Cave, we could only look up and wonder. We could see a few bats (Gray, I think), flying around.

Bat Cave is the last of many caves on the Big Tavern. If one goes south on Hwy. 17 from Iberia, turn on Madden Ford Road, they can visit a cave called Ferguson Cave that sits right in the creek bank. About one mile downstream is Barnett Cave. The entrance, also, is right on the bank. The Zumwalts, Buzz and perhaps another LOG member visited these caves around 1989. Barnett Cave has around 2,000 feet of passage.

Cave in the bluff

Photo by MDC

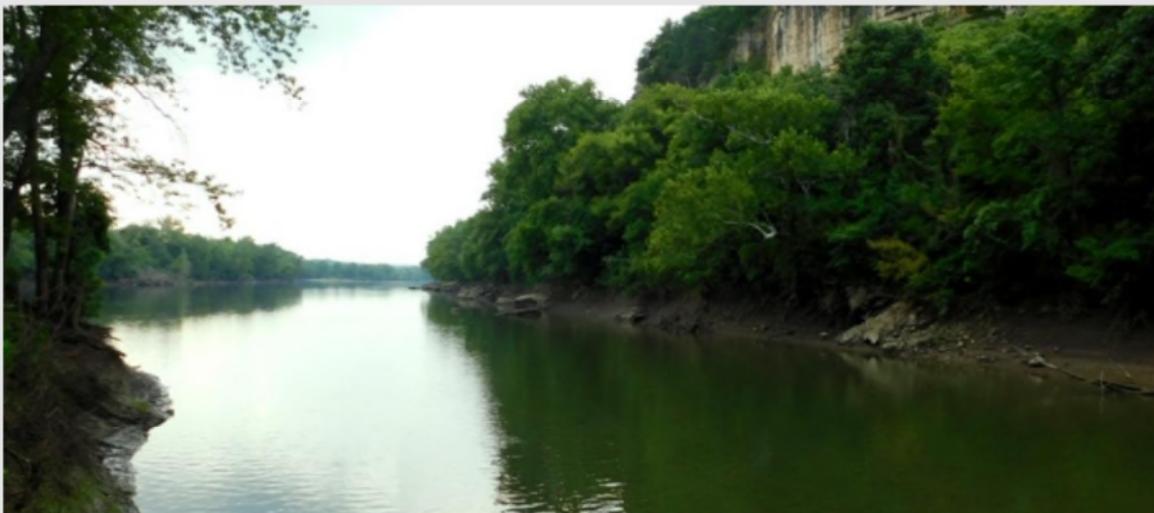


## The Speleograph

As one goes downstream on the Big Tavern, the gradient drops and the caves sit further off the stream and are generally shorter in length. Some of these caves may sit a mile or more away from the big Tavern and still have 600-1000 feet of passage. Imagine the cave system that was at one time, eons ago.

Coming back to Bat Cave at the mouth of the Big Tavern, it appears at first glance that the Big Tavern empties into the Osage River before it passes Bat Cave. However, Buzz and Priscilla both could clearly see that this is not the case. The two streams actually run side by side as clearly indicated by the different colors of the waters. The Osage River was running clear and the Big Tavern, a little darker. This continues for a hundred yards or so past Bat Cave. Buzz had observed this years earlier. This would put Bat Cave as a cave in the Big Tavern system.

Bat Cave was mapped on October 1st, 1960 by A. Johnson, P. Johnson, D. Webster, L. Amos and S. Barnholtz. Its mapped length is 660 feet and has a right passage that ends in a question mark. The left passage ends abruptly in the guano room.—Buzz Caldwell



Where the Big Tavern and Osage rivers meet

Photo credit by MDC

## The Speleograph

### LOG MINUTES

#### April 11th, 2023

The April meeting of Lake Ozarks Grotto was called to order by Ken Long, Chairman, on the deck at the gift shop at Stark Caverns, Eldon, MO.

Roll Call: Seven members present – Buzz Caldwell, Christen Easter, Ken Long, Karen Weaver, Rosie Weaver, Gary & Alberta Zumwalt.

The minutes of the November meeting were read and approved.

Some discussion on member Craig Smith who is now in a nursing home with a fast-moving brain cancer. Craig has been a LOG member for one year.

*Speleograph*. Chairman Long needs articles and does not have enough to publish the *Speleograph* to come out the end of June. So, articles are needed if we are going to continue to publish 2 issues a year.

The Secretary said that all bats except the Big Brown, are now considered endangered, according to information shared at the recent MSS meeting.

Carroll Cave – Now owned by the MCKC does not have access to the natural entrance. Some discussion on the MCKC's plans to try to buy Crystal Cave.

Goodwin – Klaus was not able to get the MCKC to cover the cost of a camera or replacement tools, etc., when he reported on Goodwin at the recent MCKC meeting.

Buzz shared information about Bat Cave, Miller Co., and said he would do an article for the *Speleograph*.

Meeting adjourned. Placement of the plaques on the Memorial Bench and a trip into Stark Caverns to follow. - Respectfully submitted, Alberta Zumwalt

Stark Caverns  
Eldon, Mo



#### May 9th, 2023

The May meeting of Lake Ozarks Grotto was called to order by Ken Long, Chairman, in the gift shop at Stark Caverns, Eldon, MO.

Roll Call: Seven members present – Christen Easter, Ken Long, Linda Marg, Karen Weaver, Rosie Weaver, Gary & Alberta Zumwalt.

The minutes of the April meeting were read and approved.

It was announced that LOG member, Craig Smith, passed away on April 28th from a fast-moving brain cancer. His funeral is June 3rd and the grotto will give a \$25 memorial for cancer research.

Chairman Long said he didn't think our grotto would be around next year if membership continued to decline. Several comments were that we weren't doing anything to get new members. The MSS webpage does have a link to our grotto website (which we just paid \$222 to renew) and Christen said that she had a response from someone who had been on our website. Christen said that Gary Braman had set up a Facebook page and she would check on that.

Goodwin. Chairman Long reported on a work trip with Klaus Leidenfrost and Jean Knoll on April 29th. They replaced the gate, tore down the safety fence, weeded the area and put a new safety fence up, got a lawnmower running and mowed. Kiesewetter. Chairman Long said another group broke the key again but did replace it. He showed a picture of the Gasconade River flood which put the parking area under water.

Grotto website. Chairman Long said there is a Google calendar that anything cave-related can be put on – contact Ken.

*Speleograph*. The next issue is due out the end of June so articles need to be sent to Ken ASAP.

Meeting adjourned. –respectfully submitted, Alberta Zumwalt

## The Speleograph

June 13th, 2023

The June meeting of Lake Ozarks Grotto was called to order by Ken Long, Chairman, in the meeting room at Stark Caverns, Eldon, MO.

Roll Call: Six members present – Buzz Caldwell, Ken Long, Karen Weaver, Rosie Weaver, Gary & Alberta Zumwalt. The minutes of the May meeting were read and approved.

Karen Weaver announced that member Frank Hurley will be 91 this month.

Chairman Long read an email from the MCKC President which said that Kirsten Alvey was banned for one year from applying for any permits to MCKC caves, because of several serious violations of the rules.

Kiesewetter. Chairman Long said there will be a work day to put a gate in the fence to the MCKC parking area so that parking will not be on the adjoining landowner's property. Suggestion to put a sign on the gate saying "MCKC Access Only" so people would know to park there.

Chairman Long passed around a list of publications that is held by an organization that is downsizing. One issue of the *Speleograph* was on the list and members agreed that we would like to have it.

Chairman Long said that he wants to restart having presentations at our meetings. Buzz volunteered to do one for the July meeting on maps and the Tavern Basin caves.

Meeting adjourned. – Respectfully submitted, Alberta Zumwalt

### BREAKDOWN:

Ken Long – If I ever get lost, I'm done for.....

Christen Easter – (talking about windy days) If I had an umbrella, I would have been Mary Poppins.....

At the May meeting, Gary Zumwalt was anxious to show everyone what he could do with a \$100 bill and a toothpick....



Ozark Caverns, Mo