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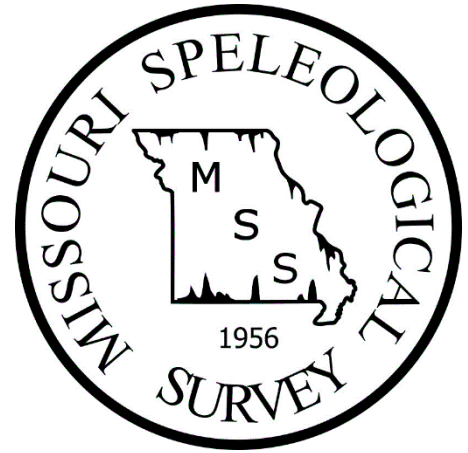
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AFFILIATE ORGANIZATIONS:

CAIRN – CCC – CHOUTEAU – DAEDALUS – KCG – LEG – LOG – MCKC – MMV – MSM – MVG – OHG – PEG – RBX – SEMO – SPG.

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Missouri Speleological Survey

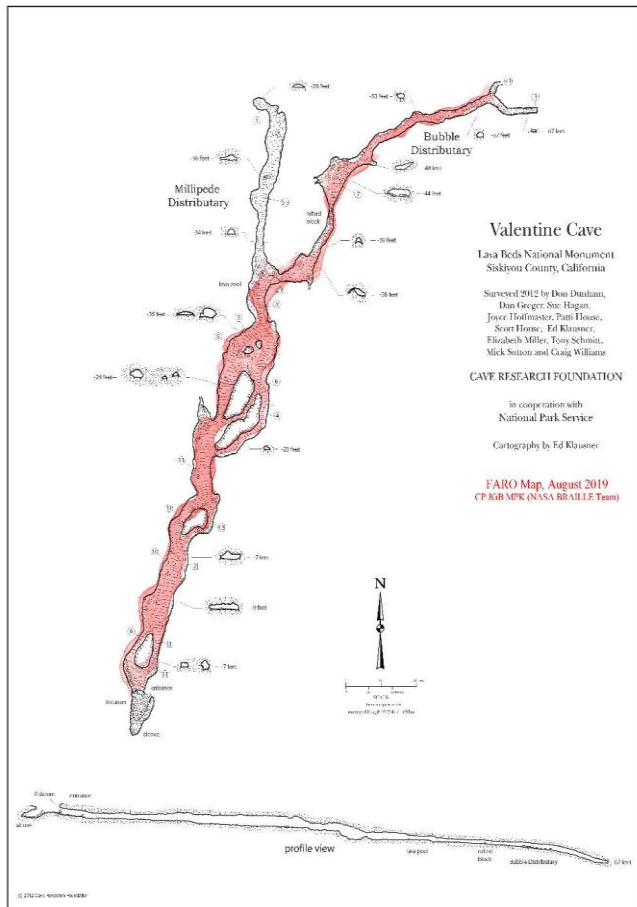


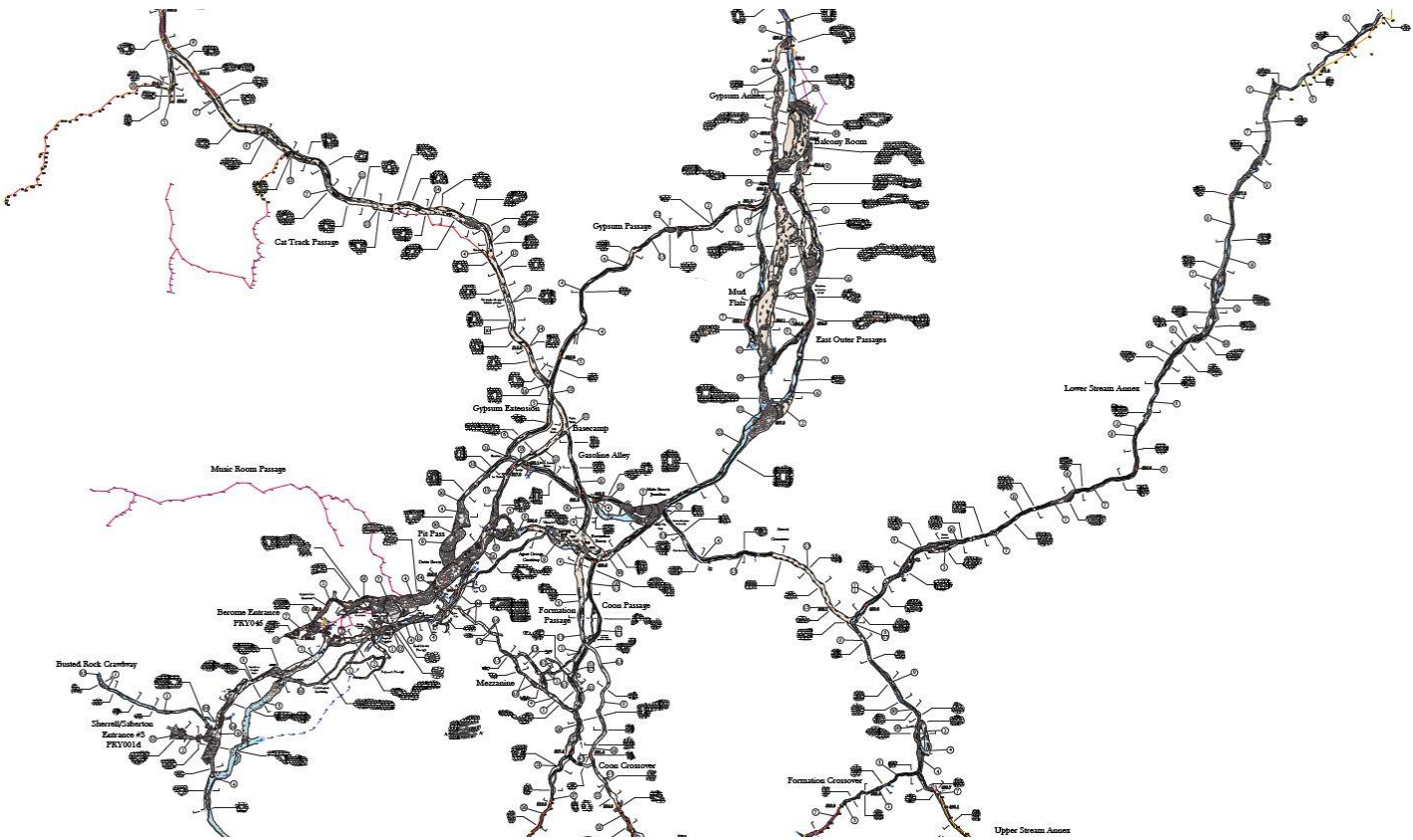
President's Message August 2019 by Dan Lamping.

I received a message the other day regarding the accuracy of our cave surveys. As many of you may know, several Missouri cavers have been involved in an ongoing project to map lava tubes in Lava Beds National Monument in northern California. Recently, NASA was doing some work in Lava Beds and one of their projects involved mapping Valentine Cave with LIDAR. This is a cave which had been mapped by CRF in 2012, and included several Missouri cavers participating in the survey. A resulting

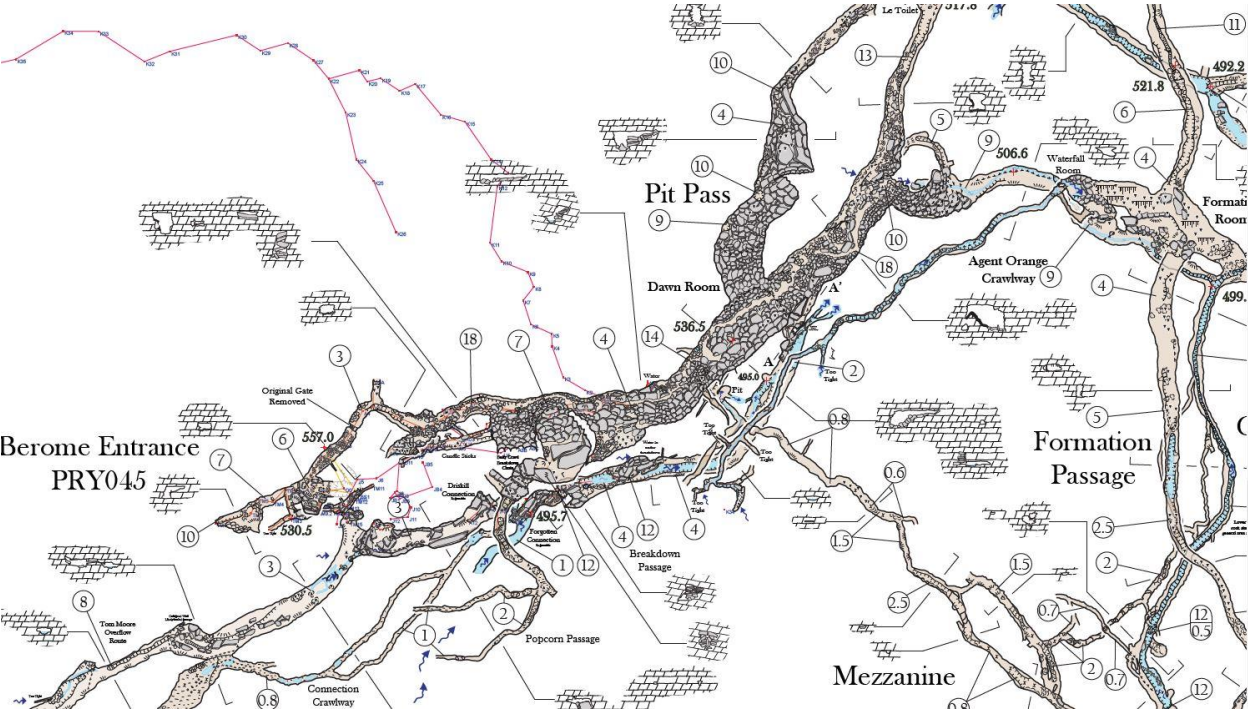
image from the NASA work was shared showing their LIDAR survey overlaid on the caver's traditional map. The results speak immensely for the quality of survey work we do. Reportedly, they were amazed at how closely our map resembled theirs and that they couldn't figure out how the cavers had done it. No doubt the technology used in making the traditional cave map could be seen as archaic by modern laser point cloud standards and no doubt there's still a place for this archaic, yet reliable technology. Pull tape. Shoot the laser. Do whatever you do. But keep mapping into the unknown.

The next MSS meeting is coming up, on Sunday, September 15 at 10:00 AM at Berome Moore Cave in Perryville. Prior to the meeting on Saturday there will be survey trips going into Berome Moore Cave. Come one, come all to help map this big Perry County classic. Chad McCain will be organizing the cave trips so if you're interested or have questions, contact him at chads93gt@hotmail.com. He's done an excellent job on the map so far and we look forward to seeing our collective knowledge of where the cave goes, to continue growing.





A map cut of Berome Moore Cave showing much of the resurvey effort. Cartography by Chad McCain

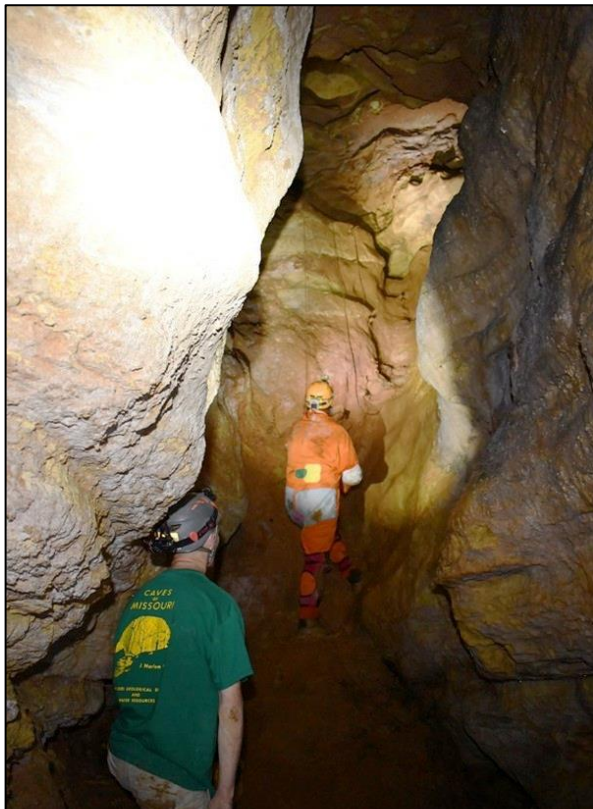


Entrance area of Berome Moore Cave at a larger scale, showing Chad's fine cartography and the fine work of all the cave mappers who've contributed thus far.

Missouri Speleological Survey - Files Report for September, 2019. Remember if you have new information on any Missouri caves, my email address is slagrush@gmail.com . We need your help to improve the database and make it more complete. **Allan Breite sent:** -A trip report to Menekat Cave in Reynolds County. Notes on directions, descriptions and fauna were included. **Mark Brooks sent:** -Survey notes, trip report and a picture of a grotto salamander from Onyx Cave in Howell County. **Jim Cooley sent:** -Trip reports, faunal records and Use Monitoring form for Onyx Mine Cave in Camden County. -Directions to Stallcup Cave in Texas County. Tyler Skaggs provided an assist by putting us in contact with the private landowner. -Additional faunal records for Onyx Mine Cave in Camden County for the 3 survey trips to the cave, they've collected 11 fauna records. Each time, over 3 weeks, they've been greeted by 2 baby buzzard chicks! -A collection of material documenting the survey (sketches, Walls, Xara, b&w, color) of My Cave and Onyx Crawl Cave (CL=120, VR=9) in Camden County. Since the caves are fairly close to each other, Cooley also presented the caves on the same map and as individual cave maps. -Similar map collections for Cricket Cave (aka Morgan Cave No.2; CL=156, VR=13), Bramble Cave (Morgan Cave No.3; CL=62, VR=10), Oneroom Cave (CL=89, VR=10) and Overlooked Cave (CL=46; VR=6) all in Texas County. -Submitted a new cave location for Lookout Cave in Texas County, cave was described in a 2003 publication but had only recently been located. **Bill Gee sent:** -Maps in progress on Mosby Cave (163=CL) in Clay County and Stark Caverns (1494=CL) in Miller County. Both caves are KCAG mapping projects and the maps are made in Thereon. Mosby Cave also has a GPS location now. -Stream Flow and Faunal Summaries for data collection in Carroll Cave in Camden County, all provided at the 2019 CCC annual meeting. **Derik Holtman sent:** -About 20 photos, trip report and faunal records of Bass Cave in Crawford County. The cave was visited during the recent MVOR. **Scott House sent:** -A map of Rattlesnake Cave (CL=134) in Texas County. This happens to be one of many Texas caves that haven't been reported on since Bretz in 1956 (yes, essentially lost). The cave was recently rediscovered by Tyler Skaggs. **Dan Lamping sent:** -A map that he recognized in the MSS map archives that was not current. He contacted the author, Bob Osburn (for the assist), who provided the more current map showing additional passage in Cox Cave (CL=2500) in Shannon County. **Joe Light sent:** -Report and entrance photo on Klamberg Cave in St. Louis County. Light also confirmed that the earlier GPS location led to the cave. -Report, faunal records and photos on a visit to Little Scott Cave in Washington County. -Report on English Cave, in the city of St. Louis with photos, documenting a small collapse that may lead to the cave, regrettably not enterable. A second report came in on this cave about a specific lot within the city limits. However, it appears to be just another rumor on this well known, but lost cave within the city. -Entrance photos of Horneker and Kenrick Seminary Caves in St. Louis County, both in St. Louis County. -A photo essay on Bluff Cave in St. Louis County. He is looking to verify its location and reviewing the maps and aerial photographs of the area. Light then did a follow up report on investigating a storm drain in the area he thought most promising. Only tadpoles were found, no cave. -A report following a lead on Bernard School Cave in St. Louis County; no cave was found on this lead but it led to another! Little Bernard School Cave, a new cave record, was found in the same area. Light sent a detailed report with location, photos and faunal records for the database. -A report on Lightfoot Cave in St. Louis County. The location is in a developed neighborhood and it has yet to be found. -Report on Laxton Cave in Shannon County. Although the trip was in 2018, it's never too late to file a report. A nice description and several photos of the cave were included. -Newspaper clipping for the dedication of a new state park, Meramec SP, with 11 brief cave descriptions. This 1928 dedication date provides the earliest reports for these caves. Light sent more than 30 other clippings of different caves and their reporting in various newspapers. One of the latest was a clipping describing bank robbers hiding out in a cave in Dent County; although the name of the cave in the article, from 1903 is different than today, all indicators point to Money Cave. Wonder why it was called that? **Alex Litsch sent:** -A historic 1922c map of the Sodalis Preserve area in Marion County. At first blush, Scott House identified that the map was of a quarry upstream of Sodalis; after looking at other alternatives, we determined that the House always wins (when it comes to maps)! -Two nice survey trip reports in Crevice Cave, Perry County. -A new map of Valles Mines/Cave (CL=1.6 miles). -A new cave location, entrance photo and directions for Fogging Pit in Ste. Genevieve County. **Adam Marty sent:** -A location for Twin Hollow Cave in St. Louis County. He had previously sent the map but we did not have a location for the cave. The cave is now lost to home construction. -An update on Bluff Cave in St. Louis County; Marty was the last "historical" report (see Light above) on this cave. This cave is also lost to home/subdivision construction. **Ben Miller sent:** -A map of Saloon Cave (CL=1160', VR=40') in Crawford County. Shortly after he sent 2 older

maps that weren't captured in our database or archives: Disappointing Dig Cave (CL=33') in Stone County and Trough Canyon Cave (CL=65') in Taney County. **Tony Schmitt sent:** -Trip report for a 46 hour survey trip to Carroll Cave in Camden County. -Three locations for new caves in Shannon and Texas Counties: Jenny Ridge Tube Cave, Jims Creek Spring Cave (both SHN) and Tire Iron Cave (TEX). In addition, his group monitored 18 caves in the course of a week. Shannon County has 693 caves to Perry County's 705 caves. **Jim Sherrell sent:** -Description of how to access Shale Passage in Berome Moore Cave, along with some other activity in the Berome area of Perry County. **Pic Walenta (KCAG) sent:** -A summary (and photos) on the condition of Mosby Cave, Clay County. An interesting bit of cave trivia is that even though this cave is in the county due north of Kansas City and it is on that county's western border, Mosby ranks eleventh most westerly cave in the state. Of course, Newton, Jasper and Jackson Counties are on Missouri's western border and they all have caves that happen to be farther west than Mosby Cave. The number one westernmost cave occurs in Platte County, a county due west of Clay! Yes, of course, Missouri's western border bulges farther west than its western boundary south of Kansas City. Walenta followed up with pictures from the subsequent cleanup and survey trip.—Ken Grush

Kansas City Area Grotto (KCAG). July 6th - Bill Gee led a trip to Carroll Cave to service the data loggers. The team included Hou Zhang, Shayle Williams, Kristen Godfrey, Amelia Niles, Shannon Robinson of KCAG, and Martin Carmichael of Chouteau Grotto. The team was in the cave at 10:00 a.m., out by 4:15 pm. They had



Jacob's Ladder: Candidate for "infrastructure improvements"

some adventures finding a gate through the new fence along Mill Creek Road, and also had to improvise some safety attachments for climbing out of the cave. The data showed a BIG flood event on May 1st. The water below Thunder Falls reached 20 feet deep, and below the ladder it was nine feet deep. This is not the deepest ever seen, but still enough to threaten life and limb. Several smaller events also occurred. The rain gauge recorded about 30 inches from late January to early July. **Also,** Jim Cooley & Ken Grush returned to Golden Hills Ranch, where we started a survey of Right Twin Cave, TEX-213, one of the two Twin Caves (which previously had only one MSS accession number) on Big Creek. This involved swimming across Big Creek to access the entrance. **July 7th** - We ridgewalked and looked for the reported Lookout Cave, and found it this time. That afternoon, Tyler Skaggs took us out to a 1,500+ foot large borehole cave in Texas County, and introduced us to the landowner. A cartographer then affiliated with OHG had started a survey of this cave in 2012, at which time the landowner was keen to have it gated, as it was getting a lot of trespassing. The landowner is now NOT so keen to have it gated, but is VERY keen to get a survey of the cave completed. This cave has a dangerous climb in it, about 300 feet from the entrance, a 20-foot-tall, slippery, muddy flowstone choke known as Jacob's Ladder. **July 8th-9th** - We returned to Right Twin Cave and finished the field work, netting 344 feet of survey. **July**

10th -Cooley visited the entrance to Lewis Cave, an MCKC permit cave in Ripley County, Missouri that was gated by KCAG, SPG, and MCKC in 2014. A collapse has occurred adjacent to the gate which is large enough for people to get through. Fortunately, it should be an easy, one-day fix to weld it up inside the cave, and then fill in the hole with rocks and possibly concrete. **July 11th** - Cooley visited the silo entrance to Carroll Cave with Larry Knox, a Benton County, Missouri contractor and heavy equipment operator, providing direction to Knox for creating a bid for CCC for installing a gate and grading and graveling a road across our 40-foot-wide easement on our adjacent landowner. **July 13th** - Cooley, Julie Cottrell and Ginny Friedrich returned to Onyx Mine Cave on an

MDC Conservation Area in Camden County for a third survey trip. We found the same two juvenile turkey buzzards as we encountered on our last two trips, whose feathers are now about half black. This guys have grown even bolder and more aggressive, and are moving around throughout much of the 198.1-foot-long main passage of the cave. Pretty soon they'll be off to college! We did a lot of sketching, and discovered a short new high upper passage that needs to be surveyed. We also determined one of the side passages will require a ladder to access it. So far, we have 536 feet of survey in this cave. We hope to complete the field work on our next trip. **July 25th** - KCAG's president Pic Walenta led a survey and cleanup project at Mosby Cave (CLA-001), in the city of Gladstone, located just north of Kansas City in Clay County, Missouri. Participants included Bill Gee, Seth and Kirsten Colston, Jeff and Tierney Bowman, Shannon Robinson, Mike Beals (who drafted the 1970's map), Nicole Ridlen, Brandon Van Dalsem, and the landowner, Bob Bateman. Mosby Cave is the only known cave in Clay County, Missouri. Everyone met at Walenta's house at 8:30 a.m., which is just three blocks from the cave. The cave has been silted nearly shut in the past, but now is fairly open. The entrance is eight feet high in the center and about 25 feet wide. There was a great deal of trash in the cave, including tires. The cave is the downstream end of a drainage ditch, so water flows into the cave, not out. There was no water in the ditch on the 25th, however, and almost none in the cave. Gee, Van Dalsem and Ridlen began a re-survey, while everyone else worked on cleanup. About 120 feet of passage was surveyed before lunch, ending at a gravel belly crawl only one foot high and five or six feet wide. After lunch, Seth Colston went along with the surveyors to the end of the survey. One survey shot past where they stopped for lunch, the cave made a sharp left turn into an area

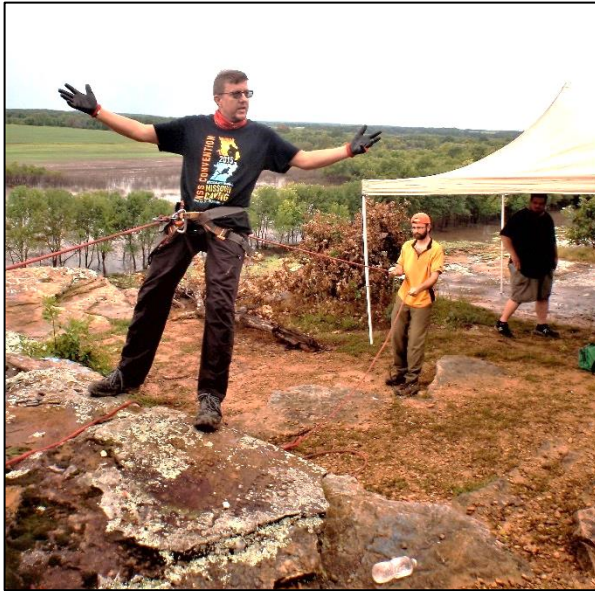


Tyler Skaggs helps survey a spring cave in Shannon County

called The Keyhole, which required another five stations. The cave was starting to get bigger. Everyone noticed that they were breathing hard even when resting, which is a sign of bad air. The cave entrance is full of rotting vegetation, so an elevated CO₂ level would not be a surprise. Rather than take a chance, they ended the survey. Van Dalsem went on ahead for about 10 minutes, reporting that the cave gets bigger. He went perhaps 130 to 150 feet, but did not reach the end of the cave. Everyone exited about 2:30 p.m. The first 70 feet or so of the cave was filled with human trash and vegetal debris that has washed in. The trash cleanup netted eight tires, a bunch of carpet, perhaps a ton of tree limbs and sticks, and five full trash bags of other stuff. The landowner arranged for all of it to be hauled away, and made a VERY generous donation to

KCAG in gratitude for our assistance. **Aug. 2nd - 5th** - Jim Cooley and Ken Grush continued surveys in several caves on a large, multi-cave, multi-landowner survey project in north Shannon County, on private property. On two days they were assisted by Tyler Skaggs. In one low spring cave, Cooley encountered a green-winged teal hen (*Anas crecca*), what may have been her nest (could have been a beaver nest, too), and at least one of her chicks, **75 feet back in the cave**. They were probably sheltering from a pair of bald eagles that nest on the pond into which the spring entrance empties. (No eagles were encountered in this spring passage, which gets down to one foot of air over 2-3 feet of water, and which is extensively floored with beaver-cut sticks over soft mud.) Later, this hen exited the cave through a human-impassable low side passage, appearing in a hole in the bluff three feet above the pond, **with the chick riding on her back**. The pair then jumped off a three-foot ledge and landed with a splash in the pond. **Aug. 6th** - Cooley and George Billbrey surveyed the entire length of a 639-foot-long, partially quarried tunnel cave, consisting mostly of eight-foot-high, 15- to 20-foot-wide passage. **Aug. 7th**- Cooley and Skaggs again visited the large borehole cave in Texas County, to measure and assess the 20-foot-high Jacob's Ladder flowstone choke feature, with an eye to building a wooden ladder beside it. This ladder will make it safe for the landowner's spelunking neighbors to ascend, plus will sustain a survey effort in what promises to be a multi-thousand-foot spanky-bank-ridden mud wallow. This cave is one of the longer caves in Texas County. The cartographer for OHG's aborted 2012 survey effort has provided his survey notes to Cooley, which ended at Jacob's Ladder, along with his fond blessings: "Have at it!" **Aug. 16th - 18th** - DJ Hall led three Boy

Scout troops (one of which consisted of all girls) to Cleveland Cave and the bluffs at Younger Outlook, on Truman Lake near Monegaw Springs, where all the Scouts were able to experience rappelling – including one Scout who



DJ Hall & Nathan Taylor demonstrate how belay from-below works during a three-troop Scouting Trip at Cleveland Cave

was legally blind. All three troops had received safety training and orientation to caving from DJ at their weekly meetings, prior to the trip. A total of 45 boys and their leaders attended this trip, some having been rescheduled from trips that had to be cancelled because the water in the cave was very high (due to Truman Lake being very high.) The water was still very high in the cave, over six feet deep in the entrance passage, which had to be swum with the assistance of a hand line. Saturday night, DJ treated the Scouts to a professional-grade fireworks show. KCAG members supporting this effort included Pic Walenta, Nathan Taylor, Heidi and Abigail Fletcher, Seth Colston, Jay Kennedy and our newest KCAG member, Nick Kennedy. Martin Carmichael from Chouteau Grotto also helped out. **Aug. 20th**- Bill Gee led a return trip to Mosby Cave. Brandon VanDalsem, Laura Jaynes and Bill Gee entered the cave, while Pic Walenta and Nicole Ridlen kept surface watch. The cave owner also came to the site. The trip had three goals: Measure CO₂ levels, continue the survey as far as possible, and to make a GoPro video of as much cave as possible. A new CO₂ meter with a maximum reading of

9,999 parts per million (ppm) was used to monitor air quality – a maximum reading of 1%. There was no water flowing into the cave, but some of the area near the entrance that had been cleaned up a month ago had changed form. About 40 feet into the cave there was a complete blockage of the passage. Gee cleared a way through the debris in about five minutes, it being mainly one piece of tree that was in the way. At the first constriction, after clearing the hole, CO₂ was measured at around 8500 ppm. The air temperature was 87 degrees Fahrenheit and the humidity was about 60%. At the Keyhole, about 80 feet in, was another obstruction. The Keyhole, about 12 feet long, three feet high and a foot wide, was completely plugged with sticks and leaves. After about 10 minutes of work by Gee in very confined space, the Keyhole was cleared. The main obstruction was a branch just about the exact size to plug it up. Everything else was smaller twigs and leaves that washed up against the branch. Then all three cavers went through the Keyhole and on to the end of the previous survey, about 30 feet past the Keyhole and 120 feet from the entrance. Another CO₂ measurement was taken which was off scale, meaning the level was higher than 9,999 ppm, or over 1%. Air temperature was 69 degrees Fahrenheit and humidity was about 85%. The distoX was broken out to continue the survey ... but the battery was dead. With no other survey instruments available, no survey was accomplished. Gee and Van Dalsem continued into the cave, GoPro still running. The cave got a bit larger after the last survey station. Not large, just not quite as small. They continued into the cave for an estimated 300 to 400 feet. There was only one very small room where Gee could stand up, about 12 feet wide in each direction. Every other passage is hands-and-knees or belly crawl, over a mostly sand and gravel floor, with very little mud. There was some trash, but not nearly as much as in the front section before the Keyhole. There were three side passages, all on the right when headed in. They all went between 10 and 20 feet before becoming too small for humans. They all sloped sharply downward and are obviously the drains for the system. The bitter end of the cave was not reached. Gee was leading, and could see another 30 or 40 feet past where he turned around – which was probably not the end. Both cavers were by now panting very hard, in part because of the effort of moving through the cave and in part, presumably, because of the high CO₂ level. Future plans: As a working hypothesis, the team plans to wait for a hard freeze lasting a week or more. That should stop decomposition at the cave entrance and allow time for the cave to accomplish an air exchange; hopefully the CO₂ level will drop. The possibility of running an air tube to the back of the cave, then running a blower for a day or two, was discussed, but it would be difficult to get a tube in there with enough diameter to do any good. The current owner is planning to sell the property.

He thinks the sale will be to the City of Gladstone for inclusion in the adjacent city park, and will be completed in a month or two. Gee has contact information at the City. The current owner made a very generous donation to



Trash Nazi Bowman snags EVERYTHING at Old Spanish Caverns, INCLUDING the kitchen sink!

KCAG, and also reimbursed us for the CO₂ meter. **Aug. 24th** - Pic Walenta and Jon Beard (SPG) led a trip that finished all graffiti removal from the first BIG room of the on-going KCAG restoration project at Old Spanish Caverns. Thirteen people participated, dashing to the cave entrance in a torrential rainstorm, including Walenta, Beard, Eileen Matson, Jeff Bowman, Scott Campbell, Allison Sieja, Leah Sandberg, Paige Underhill, Tyler Whitted, the landowner, the landowner's wife, and their two teen-aged sons. Per the landowner's request, KCAG will now skip a few areas and move on to an important passage to Rebecca's Well, which is very full of graffiti. The hard working crew tried out some new high-powered, cordless Mokanns, the "Ghost Buster device." Beard also experimented with some new, environmentally friendly gel methods of restoration, which proved to be successful on some very delicate walls. Not only did they work hard, they played hard, finding a newly discovered passage full of orange rim stone dams. Everyone loved the new campground! On the surface, "Trash Nazi" Jeff Bowman collected eight large bags of trash, window screens, various chair pieces, parts of an old refrigerator, and yes ... even the kitchen sink! After a full day of restoration work, Team Resto left the cave around 5:00 p.m., fixed a great meal, built a huge campfire, and relaxed in some very beautiful weather.-- Jim Cooley

Middle Mississippi Grotto (MMV). June 17th -22nd - Lois Walsh visited Hidden River Cave, Horse Cave and the ACCA Museum during the 2019 NSS Convention in Cookeville, TN. It was a rainy week but things went well and fun and friendship were provided. **June 29th** - Michele Leicht, Larry Abeln, Jim Sherrell, Eric Sutterlin visited Valles Mines to do a cave radio location. With the additional surface team of Earl and Bill Hancock, the location was successful. Additionally, more new ongoing passage was found. It should be noted that Valles Mines has been officially renamed Big Lode Cave. **July 4th** - Jeff Coleman and Eric Sutterlin visited Big Lode Cave (Valles Mines) with the task of surveying the Rocky Diggs Section. A few hundred feet of survey was accomplished. Some leads from the West Entrance were pushed as well. **July 5th** - Doug Leer, Darrol Gasawski and Eric Sutterlin visited Berome Moore Cave with the goal of determining the route of the Fall MVOR cave trip. The trip was a success and a trip route was determined. Depending on the group, the route can be traversed in three to four hours. Included in the trip will be walking (dry and wet), crawling, and some climbing of large breakdown. **Aug. ?** -- On an unspecified date in August, Larry Ablin, Michele Leicht, Laura and Habib Belarbi, Dane Driskill, Jordan Green and Megan ? visited the Steve & Ellen Frye Farm in Farrar, MO. The purpose of the trip was to check out some farm caves on the property. The Fryes own the Eggers B&B in Farrar, MO. The results of the cave investigations was not reported. **Aug. 1st – 10th** - Rick Haley reported on his Galapagos Islands Caves Expedition. This was Rick's 5th caving trip to the Islands. Other participants in the expedition were Aaron Addison, Bob Osborn, Rick Toomey, Elizabeth Winkler, and Scott Linn. There were also two people from Italy and two from Ecuador. The caves explored/surveyed were lava tubes on the Island of Santa Cruz within the Galapagos Islands. As a result of the surveying/mapping, this island now contains the longest lava tube system in South America. **Aug. 4th – 6th** - Don Dunham, Scott House and others participated the continuation of mapping at Tumbling Creek Cave (Ozark Underground Laboratory. **Aug. 10th** - Brian Biggs and Alex Litch visited Big Lode Cave (Valles Mines) via the Little Bill shaft for the purpose of surveying. The trip resulted in an additional 500 feet. **Aug. 17th** - Jim Sherrell and Alex Litch continued the survey of last week in Big Lode Cave via the Little Bill shaft. This trip resulted in an additional 600 feet. The cave is now at 1.8 miles. Of significance was

the discovery of a signature and some "cave art" by Peter Frazier. These were dated 1877. **Also** - Jeff Coleman and Eric Sutterlin surveyed in another section of Big Lode Cave which netted 400 feet. They had to do a bit of "passage widening" to accommodate the "tubby" one of us, who is to remain unnamed.--Doug Leer

Springfield Plateau Grotto (SPG). July 16th—Jon Beard showed Pearson Creek Cave (Greene Co) to Roman Thomas, the new manager of the cave's 424 feet of restored features. Some small bits of remaining trash (votive candle tins, tiny glass shards, etc.) were removed and fauna was noted (salamanders, insects, etc.). **July 20th**—Jon Beard joined a KCAG crew led by Bill Gee in more survey work in multiple areas in Stark Caverns (Miller Co). A few hundred feet of hard-fought side passages were added. **July 21st**—Max White led an eight person crew to add concrete to make life miserable for vandals attempting to illegally enter Crystal Caverns (Barry Co), a former show cave leased by the MCKC. Joining Max were cave manager Brandon Van Dalsem, Cheryl Paulson, Bill Heim, Treavor Bussard and fiancée Candace Walden, Jon Beard and the owner of Old Spanish Cave, Nathan Burton. In past attempts, vandals have broken through the weak back wall of the entrance structure. This back wall is now a place they will no longer be attempting to enter. **July 27th**—Cavers converged at Three Forks Cave (Oklahoma) at the home of hosts Clayton and Cynthia Russell. Three teams of mappers surveyed some 1,300 feet. Crews led by Kayla Sapkota and Mark Jones worked on an area at or near the Octopus Room beyond the Guads while the team of Jon Beard and Clayton worked in the Bear Crawl Cave section in the far west portion of the cave. **July 28th**—While Dennis Novicky and Hannah Lieffring surveyed a southern section, and Mark Jones did some mop up work elsewhere in Three Forks Cave, Jon and Clayton conducted repair of two stalagmites in the Parachute Room area of the cave. **Aug. 1st**—Jon Beard and friend David Duncan rejoined a large stalactite piece to its original home in the Paul's Gallery section of Fitzpatrick Cave (Christian Co). After this large piece was pinned and epoxied in place, using a tripod recently purchased by SPG for stalactite repairs, a two-piece stalactite was rejoined. However, its original location has yet to be determined. **Aug. 4th**—Jon Beard continued the restoration in Tumbling Creek Cave (Taney Co) in its East Passage. This involves the removal of splattered silt on walls and ceiling in the vicinity of a short artificial tunnel made some 50 years ago in the making of a trail system. **Aug. 5th**—Matt Beeson and Jon Beard joined Scott House and Don Dunham in the detailed survey of the Breakdown Room in Tumbling Creek Cave. This a wide, complex area with several leads (to survey later). **Aug. 6th**—Jon Beard conducted additional restoration in the East Passage of Tumbling Creek Cave. Additional work will be done in the autumn season. **Aug. 10th**—Jon and Alicia Beard had a photo trip to Bridal Cave (Camden Co) as part of a day in the Lake of the Ozarks area. Several photos were taken of the highly decorated cave. **Aug. 24th**—Jon Beard joined members of KCAG and the family that owns Old Spanish Cave (Stone Co) in resumption of spray paint graffiti removal in what is labeled The Great Room on the 1967 Rimbach-Taylor map. After the work was done, some exploring of other passages was done, noting the majority of graffiti yet to be removed, especially in the Rebecca's Well passage. Some exploring of a short, possibly virgin passage was done, a passage decorated with orange rimstone dams. **Aug. 31st**—Jon Beard joined project leader Bill Gee and Bruce Archambault in the continuing resurvey of Stark Caverns (Miller Co).-- Report by Max White, Materials provided by Jonathan Beard

Lake Ozarks Grotto (LOG). Reported at the June meeting: Klaus Leidenfrost & Jean Knoll worked at Goodwin, painting the port-a-pot and doing maintenance to the grounds. Klaus hauled off 440 pounds of trash. **Reported at the July meeting:** Klaus Leidenfrost and Ken Long worked at Goodwin, mowing and weedeating. They filled 10 sand bags with gravel on a very hot day. They placed 4 bags on the left side of the sediment trap, put down a new tarp, and weighted it down with the remaining bags. Klaus had brochures of Goodwin Sinkhole and Cave Restoration Project printed. LOG donated 1/3 of the cost of the brochures. Anyone who wants some brochures to distribute needs to contact Klaus. Chaz Jesiolowski, manager of Stark Caverns & LOG member, gave an excellent program "Dowsing – Introduction to the Art of Biolocation." —Alberta Zumwalt

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Caves of Missouri Discussion Group – <http://groups.yahoo.com/group/cavesofmo>
Petroglyphs, inscriptions, & pictographs: rockartmo.com

CALENDAR:

Sept. 15th – Fall MSS Meeting, Berome Moore Cave, Perryville, MO. Meeting starts at 10 am. MCKC meeting the same day.

Oct. 11th – 14th – Fall MVOR, hosted by MMV, East Perry County Fair Grounds, 200 Church St., Altenburg, MO 63732. Pre-registration ends Sept. 20th.

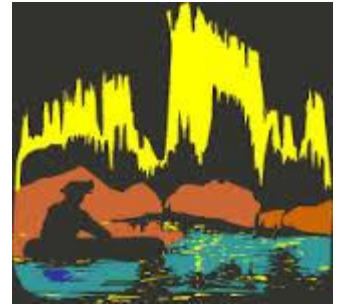
Nov. 1st – Next MSS Liaison deadline.

Missouri Speleological Survey

Fall 2019 Board Meeting Agenda

Sunday, September 15, 2019

Lloyd and Ethel Hoff's Underground Nature Preserve - Perryville, Missouri, Hosted by
Middle Mississippi Valley Grotto and Missouri Caves and Karst Conservancy



Start time 10:00 AM

Administrative Business

- Roll call – Officers and Board
- Secretary's Report and approval of last meeting's minutes – Alberta Zumwalt
- Liaison – Gary Zumwalt
- Treasurer's Report – Don Dunham
- *Missouri Speleology* – *Missouri Speleology* Editorial Board

Old Business

New Business

Projects and Announcements

- Cave files / Database
 - New caves
 - Cave maps
 - Cave reports
- Agency Reports
 - *Mark Twain National Forest*
 - *Ozark National Scenic Riverways*
 - *Missouri Department of Conservation*
 - Others
- Affiliate Organizations Project Reports
 - Carroll Cave
 - Berome Moore
 - Others
- Public Outreach
 - Facebook & Website
- Announcements
 - Tex Yokum Certificate of Appreciation
 - Lang Brod Award
 - Thank you to MMV & MCKC

Next meeting & Adjournment