

THE MSS LIAISON

VOLUME 59 NUMBER 11-12

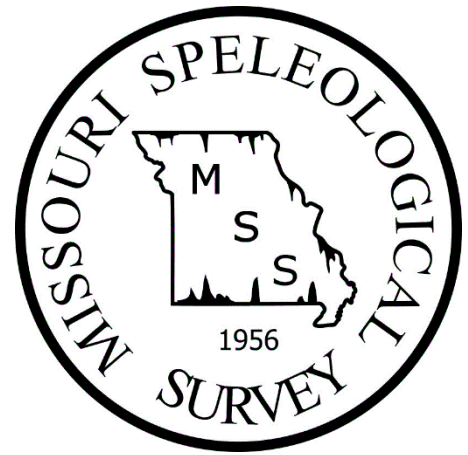
November - December 2019

AFFILIATE ORGANIZATIONS:

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

Distributed free on the MSS website: <http://www.mospeleo.org/>

Subscription rate for paper copies is \$10.00 per year. Send check or money order made out to the Missouri Speleological Survey to the Editor, Gary Zumwalt, 1681 State Route D, Lohman, MO 65053. Telephone: 573-782-3560.



Missouri Speleological Survey Files Report for January, 2020. Here's the report card for the past year. Plus, occasionally I like to double check the map entries against the map archives. If we have 100 map entries for a county in the database, we should also have the same count in the archives; I'm pleased to say we do now with a few minor adjustments and corrections. So currently we have 5787 map entries in the database, compared to 5631 last year at this time. That is a gain of 156 maps. I want to clarify that with 5768 maps, we do not have 5768 caves that are mapped. The difference is that many caves have more than 1 map; some maps come in color and b&w, or they'll come in a series of plates. Each item is inventoried and adds to the total. However, it appears that we do have over 4100 caves mapped which is slightly more than half of the 7475 caves that we maintain in our database. This 7475 cave count does **not** include the cave leads, mines and the secondary entrances that we also monitor in the database. Within our database, we also keep monitoring forms for the work that we do with various governmental agencies; today we have 3277 use monitoring forms, compared to 3066 last year. Today we also have 35,009 faunal records compared to 33,791 records last year. And lastly we have just broken through a 20,000 reports milestone, now at 20,100. These reports are the text form of hardcopy reports that have been transcribed and entered into the electronic database; last year we stood at 18,111. Text format allows the data to be readily searched within the database. I consider all this very healthy growth. So once again, kudos to all of the cooperators working within the state. **CRF** had 3 weeks scheduled in Winona for December, lots of service work was performed during the weekdays including monitoring 21 other caves (21 use monitoring forms and 64 faunal records), but also on the Saturday of the first weekend, some 22 more caves were monitored by CRF/MVG/KCAG caver-volunteers generating 22 Use Monitoring forms and 57 faunal records. A whole lot of good work and documentation is being generated by active cavers. Contact Scott House for the CRF schedule of activities on both the MTNF and ONSR. **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. I can and do work with Facebook entries, but for information or photos to be incorporated I need to be "private messaged" with the cave name and county. **I can take** cave reports via Private Messenger if you provide the cave name and some specifics so we know that we are both talking about the same cave. If you have a "new" cave, I will need more specifics to locate the cave via GPS or directions. See Andy Free and Nicole Ridlen below. Or inquire at MoSpeleo.org. If you post to Facebook, you can contribute to our cave files, please, privately. **Kirsten Alvey-Mudd sent:** -47 new fauna records for caves monitoring in Stone County. Along with the fauna came several photographs of the caves and critters. **Jon Beard sent:** -A collection of about 80 photos from trips stationed out of the Ozark Underground Lab during a CRF survey weekend of the cave. Photos included 10 other caves that will be a feature of an upcoming MoSpeleo issue. -A "minor" correction of the Stonebridge map in Greene County. Turns out that the map had only been identified as Stonebridge, but it also maps Natural Bridge Cave #1 & #2 and Natural Bridge Spring Cave. This correction adds 3 "new" map records. It pays to have someone with local experience to recognize corrections that can be made. -Beard has also been helping with my audit of the cave map records. -A new map of Cane Bluff Cave #1 (CL36), in Taney County. I'm already looking forward to a MoSpeleo issue where Beard will write about the flood maze systems that occur throughout the state, but in particular, in the Cotter formation of SWMO. -A new areal map

that links the 6-7 caves on Cane Bluff on one map with outlines of their passage; another component of the upcoming MoSpeleo issue. **Mark Brooks sent:** -A trip report for a survey visit to Onyx Cave in Pulaski County. **Treavor Bussard sent:** -Location and entrance photo for a new cave in Christian County, Chrisco Cave, for now a temporary name that contracts the county name. **Seth Colston sent:** -5 photos from Onyx Mine Cave in Camden County, part of a survey trip to the cave. **Jim Cooley sent:** -Faunal records for a trip private landowner's cave in Hickory County. -Two new cave maps for Allen Cave (CL=98) and Ballroom Cavelet (CL=10, on same map of Allen Cave), Cold Cave (CL=1572), Dani Cave (CL=204) and Lion Cave (CL=182, VR=8), all 5 on large private tract, Cloud 9 Ranch in Ozark County. Cooley includes his Xara, Walls and survey notes in his map submissions, all are stored digitally in our Cave Map Archives. **Andy Free sent via Facebook Messenger:** -A report on the fauna of well-known cave in Pulaski County. Four records were added including a Screech Owl. **Dillon Freiburger sent:** -A new map of Flat Hole Cave (CL=40) in Taney County. -A new cave Main Table import: Little Pete's Cave (CL=39). Freiburger provided all the details to enter a new cave in the Filemaker format. This makes for easy import to the database. Photos were attached to submittal. **Bill Gee sent:** -A map of Stark Caverns which is being remapped to update the previous 1961 map. -Fauna records for Carroll Cave. The CCC regularly counts isopods of a certain length and also monitors guano accumulation at set stations throughout a portion of the cave. -Reports on recent activity at Allie Spring Cave in Pulaski County. **Scott House sent:** -Seven new main table entries for caves in Perry County: Rousseau Bridge Pit, Rousseau Rift, Side Pocket Pit, Cyclists Delight Pit, Crucifix Pit, Carapace Canyon Chasm and Pothole Canyon Cave. **Mark Jones sent:** -Another bevy of over 500 photos for work over the past year primarily on the Ozark National Scenic Riverways (ONSR). We met at the Winona facility for joint operations of ONSR and MTNF (Mark Twain National Forest). During the week we were in Winona, he collected data on 16 caves, including 16 Use Monitoring forms, almost 90 fauna records and 16 cave reports. (If interested in working on CRF projects contact Scott House for dates of the next trips.) **Alex Litsch sent:** -Two new caves for Jefferson County: Riverview and Underpeak Caves. Litsch supplied all the photos, location, directions and descriptions needed to fill out the database for these caves. -Information on a second entrance to Cathode Cave which connects to Fluted Rift Cave, all in Ste. Genevieve. **Joe Light sent:** -Reports on Kertzinger and Glasgow Caves in St. Louis (city proper). Kertzinger apparently disappeared with the mounds (about the Civil War) that gave the city the nickname, "Mound City." Glasgow Cave reappeared about 1999 when a new school was being built on the north side of the city but is again buried. -Reports and photos on the many caves he went to while working with CRF/MVG in Winona. -Two newspaper clippings on Welch Cave in Shannon County and Cobb Cavern (Mincke Cave) in St. Louis County. -Seven or more historical news clippings for caves all around the state. These got filed in the appropriate cave folders in the archives. A couple were cave specific and got filed in the database also. **Chad McCain:** -A trip report on the latest survey trip in Berome Moore Cave in Perry County. McCain reports that cave length is now over 22 miles and this moved Berome up to 31st place on US Long Cave list. **Dennis Novicky sent:** -Report on survey work at Allie Spring (see Gee above too, an MCKC managed property). **Nicole Ridlen sent via Facebook Messenger:** -Four locations and entrance photos for "caves" in McDonald County. McDonald County in the past 10 years had acquired quite a few new caves, because interest got focused there by Missouri Bat Census (Kirsten Alvey) and Ben Miller. The county is still an area that has largely been ignored because it is in the very southwest corner of state. The locations help confirm 2 known caves and suggest 2 new caves...just by driving down roads. Will need to get permission before more information can come in. **Gary Ruedin sent:** -12 or more monitoring forms for the caves visited by MVG while down in Winona working with CRF. **Mick Sutton sent:** -Map (and Illustrator file) of a developing sinkhole in Reynolds County, not quite a cave yet! -Map (and Illustrator file) on Tarpit Hollow Cave (CL=34, VR=3), a new one for Reynolds County.—Ken Grush

Kansas City Area Grotto (KCAG). Nov. 2nd - Bill Gee led another survey trip to Stark Caverns, a show cave in Eldon, MO. Participants included Jon Beard, Jeff Page, Kristen Godfrey, and Martin Carmichael (Chouteau Grotto). The survey of the publicly accessible parts of the cave is finished, and the effort is now off into the wild sections. The team entered the cave at 9:30 a.m. and exited at 4:30 p.m. This was the first survey trip for the new DistoX2 devices owned by KCAG. They worked in five parts of the cave, in two teams. Jon Beard's team struggled for a while with a balky DistoX2, which probably has an alignment problem on its laser assembly. It wouldn't take a distance measure of more than about 25 feet. They had to complete a loop survey by using a

traditional tape, getting only compass and clinometer readings off the DistoX2. **Also** - KCAG's Hickory County project leader Gary Johnson led a landowner trip at Elkton Cave. Twelve family members from the sinkhole property participated, and four family members from the bluff entrance property participated. Dr. Jay Kennedy did the rigging and vertical training, assisted by Seth Colston, Hou Zhong, and Nick Kennedy. All members of the sinkhole property family (save one) opted to rappel into the cave via a sinkhole entrance (a 35-foot-deep pit), after they all passed the vertical training. Gary Johnson led a smaller group into the cave via the bluff entrance. Eleven days before this trip, a colony of 4,000 or more gray bats had been present in the cave. But this transient colony had moved on, with only a small group of less than 40 present in the cave at the time of this landowner trip. The family members saw the vast majority of the 2,000-foot cave system, even the little passages that required belly crawling. The group was in the cave close to three hours. Afterwards the sinkhole property landowner grilled hot dogs for everyone. Numerous tri-colored bats were noted, plus a spotted salamander that most likely fell into the cave at the pit entrance, and a long-tailed salamander, which took exception to being inspected under a headlamp: It leapt into the stream and swam away! **Nov. 8th** - Dennis and Austin Novicky went into the pit entrance of Allie Spring Cave to continue survey in the Top of Texas passage. **Nov. 9th** - Bill Gee, Bob Lerch and Rita Worden also took the pit entrance to Allie Spring Cave and surveyed the upper lead over the Slant Room. This is known as "Keenan's Hole" because it has an opening in the floor to the cave below. They also surveyed the second left passage going from station AA36. **Nov. 10th** - The Novickys went back to Allie



Trash Nazi Bowman (right) makes landowner Burton a happy camper.

Spring Cave and headed for the F and H surveys, the most remote spot in the cave. They dug through a sandy spot and found going passage on the other side. Worden and Lerch went to the Cobble Crawl at the end of the C survey to see if it could be pushed any further. All teams on all three days used the newly discovered pit entrance. Bruce Archambault (landowner), Pic Walenta, Jeff Bowman and Shawn Williams provided camp support for this project. **Nov. 22nd – 24th** - KCAG returned to the restoration project at Old Spanish Cave in Stone County. This time we were joined by Rita Worden (president of Chouteau Grotto) and her grandson, Bo, and our first scout troop (out of Leawood, Kansas) to visit Old Spanish. The group started their day with KCAG's Seth Colston and Kristen Godfrey giving an educational tour of the cave. They then joined Pic Walenta (KCAG) and Jon Beard (SPG) on the

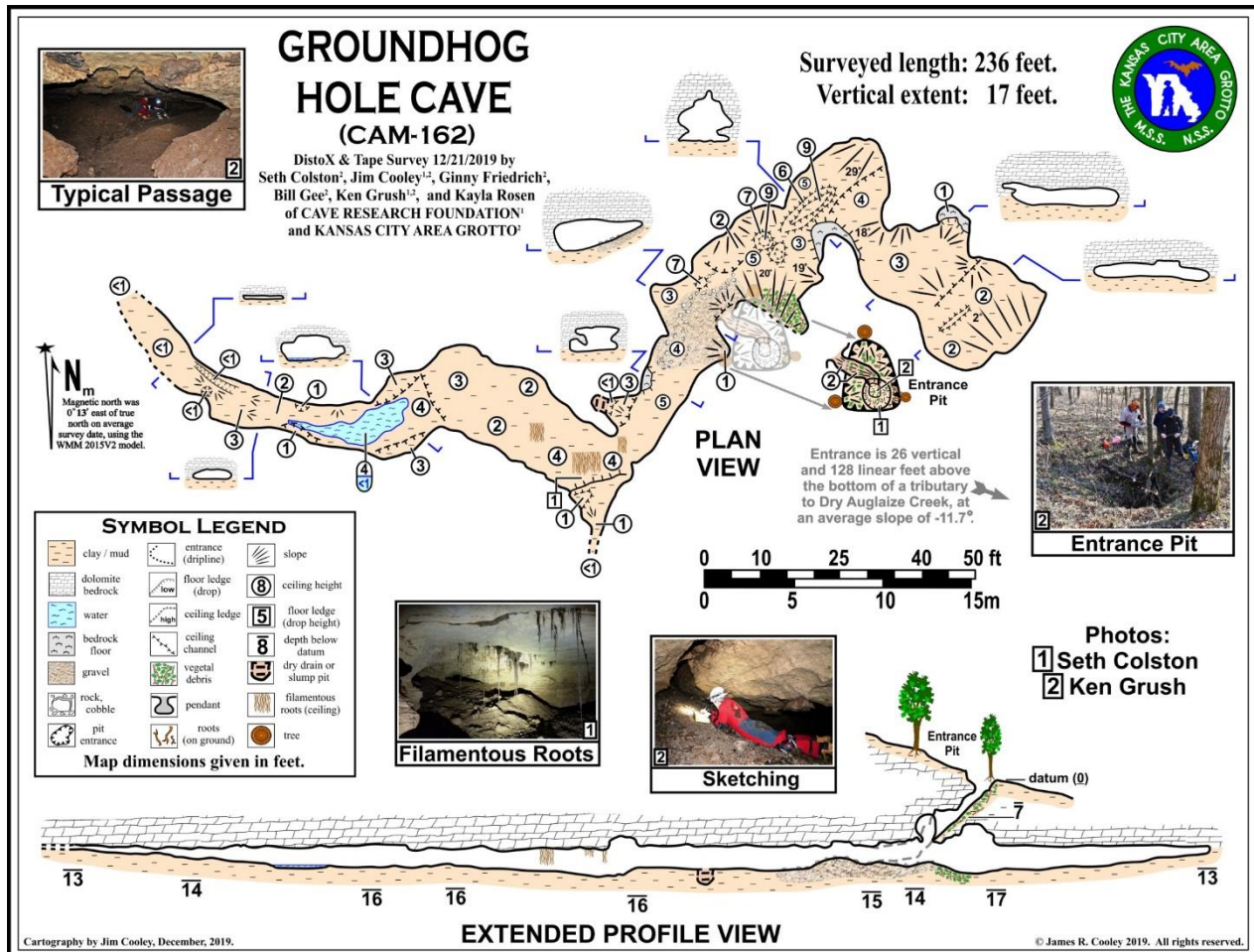
cave restoration side for more removal of graffiti. The day ended on the surface with more clean-up, directed by KCAG's Trash Nazi Jeff Bowman, plus a little log rolling and firewood piling. On day two, Bowman and our



Archaeological looting tool found by KCAG's Craig Hines in an MTNF cave.

gracious landowner Nathan Burton successfully removed the long-nagging, thorn in Bowman's side, a fully grown, adult 500-gallon propane tank, out of the very steep valley out in front of Old Spanish Cave. It's believed this beast had once squatted by the burned down show cave office and gift shop, and has been living defiantly down in the valley for the last 40 years. After several attempts, including two broken cables and ultimately requiring two vehicles, Bowman and Burton completed this HUGE accomplishment! It will soon become the campground's smoker & grill, which Chef Pic will soon inaugurate by grilling up some of her famous Iowa pork chops! **Nov. 30th**, - Jim Cooley planned to lead a backpack trip onto the Irish Wilderness to survey a pit cave we discovered in 2008, with a crew including Ginny Friedrich, Hou Zhong, and Brian Beecher, approaching from the west side by crossing the Eleven Point River. Unfortunately, two solid days of rain, high and rising water on the river, coupled with soaked woods and rapidly falling temperatures, caused the team to fall back to

Plan B, monitoring caves for CRF on the Mark Twain National Forest. So in the afternoon, after reluctantly convincing ourselves that the river was just not to be tackled today, we monitoring High Canyon, Whitten and Saint David's Cave. The following day we monitored Panther Cave and Lower Panther Cave, Root Cellar Cave, and Sunset Cave. **Dec. 2nd** - We finally at least got on the river to monitor Sand Cave, Bliss Camp Cave, and the entrance to Outflow Cave. **Dec. 3rd** - Cooley met with the Chief of Resource Management for the U.S. Army Corps of Engineers, at the Bulls Shoals and Norfolk Lake project office, to discuss further projects following on the October gating of Beaver Creek Caves 1 & 2 on upper Bull Shoals Lake. **Dec. 5th** - Cooley led Jake Pluim, Mark Twain National Forest (MTNF) archaeological technician, to examine five caves on the Eleven Point Ranger District for archaeological potential. **Dec. 6th** - Cooley and Pluim were joined by Dave Cain, MTNF Zone Archeologist, who brought a motorboat, for archaeological evaluations of three caves on the Irish Wilderness, all of them discovered by KCAG since 2008. One, which had signs of archaeological looting including a rotted sifting screen, proved to be significant new site. **Dec. 7th** - Cooley and Julie Cottrell led Pluim to six other MTNF caves for archaeological assessment. **Dec. 9th** - Cooley and Cottrell monitored the caves around Allie Spring on the Ozark National Scenic Riverways (ONSR), for CRF. **Also**, mostly on ONSR for CRF, Shannon Robinson accompanied several cavers on a trip led by Ken Grush to monitor seven caves. They hiked over three miles in steep terrain with wet, leaf-covered loose rocks to monitor Brenner, Rough Hollow, and several Rymer Landing caves and Meeting House caves. **Dec. 8th** - Robinson assisted on a trip led by Mark Jones to Wind Cave for monitoring, the first time he had seen a sizable pile of bat guano. The trip back to the truck was only straight up 400 plus feet and took 40 minutes-- just sayin'! **Dec. 9th** - Jones took Robinson and Seth Colson to monitor two Bluff Caves, Spring Hollow Cave, the Powder Mill Spring Cave entrance, and Holmes Hollow Cave. Robinson found his first Southern Red-Backed Salamander. **Dec. 10th** - Robinson helped Ken Grush find his brand new Spot device, which was *hors de combat* after failing to get into the car the previous day before everyone drove back to the residence. On the way out they stopped to check out Falling Spring Cave. **Dec. 21st** - Jim Cooley and Ken Grush led a survey team including KCAG's Bill Gee, Seth Colston, Ginny Friedrich, as well as landowner Kayla





KCAG's Ginny Friedrich resurveys a Camden County cave Using ladder and canoe.



New wine in old bottles: Rimstone dam cascade at Terminus of a new passage discovered above a well-known Camden County

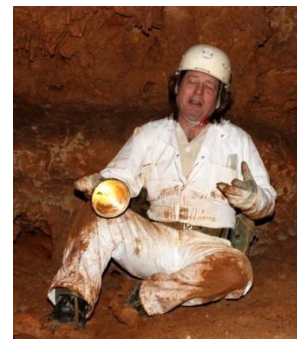
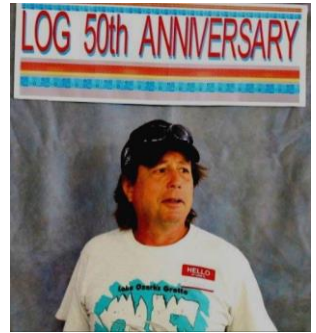
Rosen, to survey Groundhog Hole Cave, a lovely and spacious (well, if you're a groundhog, anyway) 236-foot-long muddy little rodent burrow in Camden County. The survey team camped at the Carroll Cave silo under the new CCC camping policy, without benefit of the sky crapper, which has not been unpacked and made functional after its movement across the road from the schoolhouse on Sept. 7th. The new gate and gravel road, however, made accessing the silo very easy. New locks were also deployed on the silo and the new gate. On that date, Cooley, Grush and Rosen also visited the second cave on the Rosen property, Castille Sink Cave, which will be surveyed soon. **Dec. 22nd** - Cooley, Colston, Friedrich and Gee began a resurvey of a nearby cave first mapped by Oz Hawksley in 1959. A resurvey has been needed since 2007, when Cooley, DJ Hall and Marcelo Kramer pushed a ten-foot-high dome lead and discovered 355 feet of highly decorated passage running above the ceiling of the known cave, which was not on the map nor suspected by the landowner. This section of the cave has now been explored and 45 survey lines shot, but needs to be sketched. **Dec. 23rd** - Cooley and Colston visited Onyx Mine Cave, where we did a final quality control check on the now-completed map.-- Jim Cooley

Lake Ozarks Grotto (LOG). Dec. 2nd – Ken Long, Gary & Alberta Zumwalt worked at Goodwin Sinkhole for a couple hours. Ken and Gary worked up top, clearing leaves with their backpack leaf blowers. The cave entrance still had water in it. **Dec. 8th** – LOG's annual Xmas party had the home of Burke and Christen Easter, Camdenton, MO with 25 people in attendance.



Kerry & daughter, Kira – March 2018

On a sad note: We were all saddened by the passing of LOG's long-time member Kerry Rowland. He was a member of LOG since 1975. He was a mover and shaker when it came to all the MVORs that LOG hosted. Kerry was one of the seven LOG members that started working on the conception of the MCKC in November 1991 and was one of the original board members. Just recently, he was instrumental in getting the port-a-pot for Goodwin Sinkhole, which was donated by LOG member Jason Synder. He was supposed to do the program for our November grotto meeting but it was cancelled because of the weather.



In Stark Caverns-2018

So he did not get to give his program. He will be missed by us all. Rest in peace, Kerry – 8/10/57 – 12/7/19. –Alberta Zumwalt

Springfield Plateau Grotto (SPG). Nov. 2nd—Jon Beard joined KCAG members Jeff Page, Kristen Godfrey, Bill Gee and Martin Carmichael in continuing survey in Stark Caverns (Miller Co). Four sides passages were surveyed, three of them completed. **Nov. 5th**—Charley Young, Bill Palmer, Roy Gold, Dillon Freiburger, Matt Bumgardner and Jon Beard were hosted by marketing director Hubert Heck in an after-hours photo trip in Fantastic Caverns (Greene Co). While most of the photography was focused on the large and plentiful speleothems not far from the cave entrances, some was taken of speleothems and passages elsewhere including a large room beyond the jeep turnaround area. **Nov. 7th**—Max White and Jon Beard hosted representatives of the City of Ozark and the Nature Conservancy at Garrison Spring just east of the city. The purpose was to give the guests information on the spring's geology, human history and hydrology. A map and photos were shown of the cave before the group reconvened at the entrance to Garrison Cave #2 (Christian Co). The group was shown the entrances to the cave and the main entrance passage. While there, Jon took note of the fauna (3 solitary gray bats, 2 pips, 200 camel crickets and perhaps the same of mosquitoes. The City of Ozark is exploring the possibility of turning the Garrison Spring area into a city park. The past 25 years or so it has been a publicly accessible private hosta garden. **Nov. 9th-11th**—Jon Beard of SPG and Mark Jones of the CRF conducted restoration in Tumbling Creek Cave (Taney Co). On Saturday, two stalagmites were rejoined and the continuation of wall and ceiling cleaning were conducted in the East Passage. A backpack sprayer, squirt bottles and brushes were used. On Sunday more cleaning was done. On Monday, four stalagmites were reattached in the East Passage. **Nov. 12th**—Two survey teams mapped in Hibernation Hall, Clear Creek and the East Passage in Tumbling Creek Cave (Taney Co). Matt Beeson and Mark Jones were one team while Scott House, Ken Grush, Don Dunham and Jon Beard were the other (East Passage). **Nov. 13th**—While Matt, Mark and Don mapped a few hundred feet in the stream ("Tumbling Creek"), Ken and Jon conducted bio monitoring in short Forest Service caves not far away. These caves included Dicus, Scenic Drive and Hercules Lookout caves. **Nov. 14th**—The annual Fantastic Caverns (Greene Co) SPG business meeting was held in the Auditorium Room of the cave. Sixteen SPG members attended plus eight guests. After the meeting, everyone walked the tour sections of the cave taking pictures and talking caves. Meanwhile, back at Tumbling Creek Cave, Matt Beeson, Don Dunham, Ken Grush and Mark Jones finished the survey of the East Passage. **Nov. 15th**—Jon Beard and Ken Grush monitored and photographed the six Cane Bluff Caves (Taney Co). First they resurveyed Cane Bluff Cave #1, a short tunnel cave. They then monitored Cane Bluff #2, the longest of the bunch. From here they surveyed the bluff line to connect all of the entrances that included Cane Bluff Cave #3, Little Cane Bluff Tunnel, Midden Cave and Cane Bluff Shelter. This will be drafted as a detailed composite map of all of the features. Meanwhile, back at Tumbling Creek Cave, Matt Beeson, Don Dunham and Mark Jones began the survey of the Lower Stream Passage. **Nov. 16th**—Jon Beard and Don Dunham monitored Clayton Cave (Taney Co), another mazy cave several hundred feet long. As with the Cane Bluff caves, they surveyed down the shallow bluff line and this will be added to the old Coonrod map. Meanwhile, back at Tumbling Creek Cave, two teams consisting of Matt Beeson, Mark Brooks, Mark Jones, Dan Lamping, Caro Ludwig, Kayla Sapkota, Isaac Smith and one other surveyed the rest of the Lower Stream Passage. **Nov. 17th**—Jon Beard and Isaac Smith did some house cleaning on the trails in Tumbling Creek Cave (Taney Co) to remove any remaining clay smudges inadvertently left from the surveyors of the East Passage. **Nov. 19th**—Jon Beard and three U.S.F.S. volunteers recorded fauna and removed spray paint graffiti from Chimney Rock Cave (Barry Co) on Forest Service lands. Historical graffiti (older than 1960) was not disturbed. **Nov. 23rd**—Jon Beard joined KCAG members and scouts in spray paint graffiti removal from Old Spanish Cave (Stone Co). This was the sixth scheduled restoration trip this year to this cave to remove a profusion of graffiti. The vast majority of graffiti and trash have been removed with perhaps a couple of trips remaining to finish the task. **Dec. 4th**—Jon Beard joined MDC staff that included Dillon Freiburger in a trip to Carrico Cave (Dade Co). The main purpose of the trip was to conduct bio monitoring such as looking for bats. While that was going on, Jon (with some help by others) spent time removing spray paint graffiti. The trip was led by MDC biologist Rhonda Rimer. The cave was gated years ago and was mapped by SPG to over 1,000 feet. Because of the Chesapeake Fault only 500 feet away, the beds are noticeably tilted. The cave is also a bristly cave crayfish site, one of which was seen that day. **Ron Martin** was in Utah on his third trip this year. While staying in the Uinta Basin of Utah, Ron visited a couple of caves. The caves in the area are erosional caves in sandstone, with no speleothems. Ron also did a presentation on caves at Neola, Utah Elementary School to about 60 students. **Dec. 13th**—Jon Beard presented a cave restoration program for the Sertoma Club of

Springfield. Jon's former fellow 3M employee and former Springfield mayor Bob Stephens invited Jon to make the presentation about graffiti removal, flowstone cleaning and speleothem reattachments in the fight against vandalism. **Dec. 14th**—The remapping of Clayton Cave (Taney Co) was started. Treavor Bussard and Jon Beard were assisted by Scott Campbell and former Greene County presiding commissioner Dave Coonrod. Jon invited Dave because he was a part of the original 1976 survey of the cave while an SMSU student. This is an interesting cave on Mark Twain National Forest and is being studied as part of CRF projects. The cave is being remapped to include more detail, more cross sections, a profile and include vertical data to help determine how it was formed. The four mapped about 300 feet of the mazy cave and noted the fauna. **Dec. 29th**—Jon Beard was assisted by Jake Colvin in addition survey work in Clayton Cave (Taney Co). Additional cross sections were made for the part of the cave mapped two weeks earlier as well as more survey further into the cave. Due to the recent 1.5-inch rain, the cave had numerous small water inputs creating trickles and annoying puddles in normally dry crawlways.--Report by Max White, Materials provided by Jonathan B. Beard and Ron Martin

MSS OFFICERS:

President – Dan Lamping, 4501 Clarlane Dr., St. Louis, MO 63128 314-775-8584 Lampingdaniel@yahoo.com

Vice-President – Scott House, 1606 Luce St., Cape Girardeau, MO 63701 573-651-3782
scott_house@hotmail.com

Treasurer - Don Dunham, 147 Ron de Lee, Arnold, MO 63010. 402-203-3191 don_g_dunham@yahoo.com

Secretary - Alberta Zumwalt, 1681 State Route D, Lohman, MO 65053. 573-782-3560 Gzumw@aol.com

MSS DIRECTORS:

CAIRN – Craig Williams, 5454 Mardel, St. Louis, MO 63109. 314-695-1012 cwilliams@cairstl.org

CCC – Vacant

Chouteau – Rita Worden, 22762 Valley Dr., Jamestown, MO 65046. 573-673-3388 wordenrl2323@yahoo.com

DAEDALUS – Jeff Fennell, 3344 Dakota Hills Dr., Pacific, MO 63069 636-575-0669 kavman87@yahoo.com

KCAG – Jim Cooley, 819 West 39th Terrace, Kansas City, MO 64111-4001. 816-763-8111 coolstoi@kc.rr.com

LEG – Al Quamen, P.O. Box 292, Carbondale, IL 62903. 618-549-2550 carbide@globaleyes.net

LOG – Gary Zumwalt, 1681 State Route D, Lohman, MO 65053. 573-782-3560 Gzumw@aol.com

MCKC – Alicia Wallace, 600 Ellwine Dr., St. Louis, MO 63125 314-892-4351 caversquirrel1@aol.com

MMV – Doug Leer, 730 Lakeshore Meadow Dr., Wildwood, MO 63038. 636-207-8468 dogleer@gmail.com

MSM – Jessica Self, 6 Karen Ann, Sullivan, MO 63080 573-587-2794 Gneiss.self@yahoo.com

MVG – Alex Litsch, 2156 U.S. Hwy 61, Festus, MO 63028. 314-914-7010 alitsch6@gmail.com

OHG – Bill Heim, 2025 W. FR 178, Springfield, MO 65810. 417-889-0640(H) build_it@juno.com

PEG – Lorin O'Daniell, 4515 Faraon-Apt. F, St. Joseph, MO 64506. 816-273-4634 lorinodaniell@gmail.com

RBD - Andy Free, 129 Hull Dr., Waynesville, MO 65583 573-528-7506 freea@embarqmail.com

SEMO – Gary Resch, 6151 Farthing Rd., Odin, IL 62870 681-780-3799 giresch@gmail.com

SPG – Max White, 2748 W. Maplewood, Springfield, MO 65807. 417-880-8475 bildmwc@aol.com

Please note: Corrected phone number for PEG's Lorin O'Daniell.

ADDRESSES:

Missouri Speleology Circulation Manager- Bill Pfantz – Wmpfantz@aol.com

MSS Liaison Editor - Gary Zumwalt, 1681 State Route D, Lohman, MO 65053. 573-782-3560 Gzumw@aol.com

MSS store - Don Dunham, 147 Ron de Lee, Arnold, MO 63010. 402-203-3191 don_g_dunham@yahoo.com

Research committee -Dr. Robert Lerch, Dr. Michael Sutton, Doug Gouzie and Jeffrey Crews

Historian- Dwight Weaver, 38 Village Marina Rd., Eldon, MO 65026. 573-365-1171 dwightweaver@charter.net

Cave Files – Ken Grush, 32 Circle View Dr, Fenton, MO 63026. 636-600-0369 slagrush@gmail.com

MSS web site –www.mospeleo.org **Carroll Cave Conservancy website** <http://www.carrollcave.org>

Ozark Caving web site– www.ozarkcaving.com **MCKC website** – <http://www.mocavesandkarst.org>

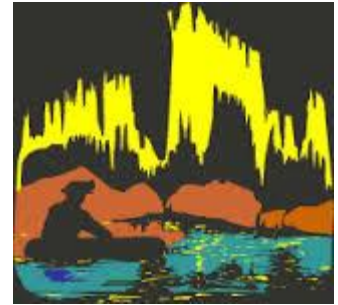
Caves of Missouri Discussion Group – <http://groups.yahoo.com/group/cavesofmo>

Petroglyphs, inscriptions, & pictographs: rockartmo.com

Missouri Speleological Survey Winter Board Meeting Agenda

January 25, 2020

Division of Geology and Land Survey Annex Conference Room
111 Fairgrounds Road, Rolla, MO



Morning Session

- Building opens at 8:00
- Cave Files Help Desk/Database tutorials, etc.
- MCKC meeting at 10:00 A.M.

Board meeting begins at 1:00 PM

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* – Don Dunham

Old Business

New Business

Projects and Announcements

- Cave files / Database
- Agency Reports
 - *Mark Twain National Forest*
 - *Ozark National Scenic Riverways*
 - *Missouri Department of Conservation*
 - *State Parks*
 - Others
- Affiliate Organizations Project Reports
 - Carroll Cave
 - Berome Moore Cave
 - Others
- Public Outreach
 - Facebook & Website

MSS Meeting – January 25th, 2020

Directors: MSS Affiliate fees of \$25.00 are due at this meeting. Please try to give the payment to the MSS Treasurer, Don Dunham, at this meeting. Or mail to him: 147 Ron de Lee, Arnold, MO 63010.

Next MSS Liaison due date – March 1st

Next meeting

Adjournment