

# THE MSS LIAISON

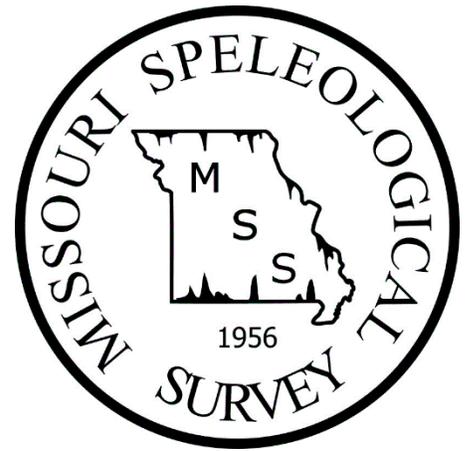
## VOLUME 59 NUMBER 3-4

March - April 2019

### AFFILIATE ORGANIZATIONS:

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

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### Missouri Speleological Survey - President's Message - April 2019 by Dan

**Lamping.** Our spring board meeting is quickly approaching on the weekend of May 3-5, 2019 at the Ozark Underground Laboratory (OUL) in Protem, MO within Taney County. The focus of the weekend won't be the board meeting itself, but rather to kick-off a resurvey effort of Tumbling Creek Cave to make a complete, up-to-modern-standards map for use within a GIS platform.

Tumbling Creek is a roughly two mile long cave and home to a rare cave snail.

The idea for the project was initiated by OUL owner Tom Aley and then further encouraged by Scott

House. This will be an open project of the MSS, so those willing to actively help in the survey are welcome to attend. No experience is needed to participate, but an interest in learning is a must. If you have question about the cave trip please contact me at [lampingdaniel@yahoo.com](mailto:lampingdaniel@yahoo.com)

Other caving opportunities will be available within the nearby Mark Twain National Forest for those who want to do their own thing. The meeting itself will be on Sunday morning at 10 AM. See the accompanying article from Scott House for further details on the site and accommodations.

Recently, several of us within the caving community were invited by the L-A-D Foundation to attend a dedication to MSS



Picture from a Crawford County cave, by Derik Holtmann

cofounder, longtime Cave Files steward, and face of Missouri caving, Jerry Vineyard. The event was to celebrate the addition of a new property to the Ball Mill Resurgence Natural Area in Perry County. It was most excellent hearing stories from Stan Sides and others on the early history of Perry County caving as well as on the life and legacy of Jerry Vineyard. The L-A-D Foundation's continued efforts at protecting lands in Missouri, particularly, in this case, the Perry County karst, is a truly notable endeavor, worthy of recognition. When we cavers think of protecting caves, we often think about cave entrances, which assures access. But in terms of actually protecting caves in their entirety, protecting the watershed is just as important. Being able to manage surface uses, even if the property does not contain an entrance or is not directly above a cave, is paramount to protecting the larger cave

ecosystem. L-A-D's most recent purchase, managed in conjunction with the Missouri Department of Conservation, does just this.

Recently, the Missouri Geological Survey posted all of their publications online for free. This includes such favorites as *Geological Wonders and Curiosities of Missouri*. Another excellent resource which the Missouri Geological Survey has developed is GeoSTRAT. This is an online tool powered by Esri's ArcGIS Online. Users can upload locational data into GeoSTRAT and overlay it onto various layers including bedrock, well logs (to help determine bedrock units), dye tracing, aerial imagery, topographic maps, terrain maps using LIDAR data, etc. This is an excellent, free tool which cavers will no doubt want to make use of.

In other news the latest issue of Missouri Speleology on the history of Cherokee Cave in St. Louis, by Joe Light has been selling like wildfire. Between the general interest of the topic as well as the online store that the MSS now has, the issue will no doubt be one of the best sellers we've ever put out. Excellent work by both Joe Light in researching and writing and Don Dunham on the layout.

## **TUMBLING CREEK CAVE**

### ***Spring meeting of the Missouri Speleological Survey***

**Ozark Underground Lab - May 2-5, 2019**



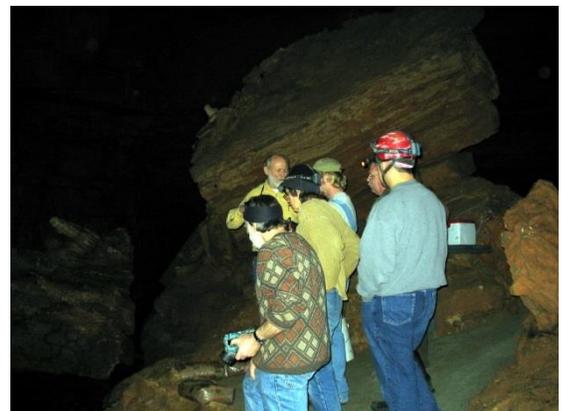
Join us at this important site for a weekend of meeting, monitoring and survey. The Ozark Underground Lab consists of 3000 acres in Taney County, Missouri, and the showpiece is Tumbling Creek Cave. Shown to the left is Tom Aley at the lab's main office. Tom and his wife Cathy have created a phenomenal business and conservation foundation. This is your chance to experience some of that.

While we are there we will be actively surveying accessible portions of the cave in order to make a new, modern map with GIS-usable data. Other activities available include an evening with Tom around the campfire, monitoring nearby USFS caves, and hiking the OUL's lands. A gray bat flight watch, exiting

the natural entrance, can be done at dusk. Most of these activities will be scheduled for Saturday. The MSS meeting is scheduled for Sunday morning.

Facilities include a bunkhouse with 16 bunks, a bathhouse (3 showers, 3 toilets, and 3 sinks), some rustic camping areas adjacent to the bunkhouse, and a field house with kitchen. The area also has outdoor eating areas and a campfire ring with benches. Staying overnight is available Thursday - Sunday, at no charge. Bring your own bedding, towels, and pillows. The bunkhouse is a unisex room. More seasoned cavers will get first priority for space in the bunkhouse. Others should plan to camp.

Bring your own lunches, snacks, and drinks. There will be a potluck dinner on Saturday night with a Mexican theme. If you wish to participate, bring something compatible with that menu.



We will try to do group breakfasts of pancakes Saturday and Sunday mornings. If you wish to do your own menu, bring your own cooking device, implements, and food. The bathhouse and kitchen are shown below.



This weekend is being sponsored by Ozark Underground Laboratory in cooperation with the Missouri Speleological Survey in cooperation with the Cave Research Foundation.

Directions: The Lab is near the small town of Protem in Taney County. You can use Google Maps to find it. The entrance is off US Highway 160; take Cave Lane to Aley Lane. For more information contact: Dan Lamping: [lampingdaniel@yahoo](mailto:lampingdaniel@yahoo) or Scott House: [scott\\_house@hotmail.com](mailto:scott_house@hotmail.com)

#### Monument for Jerry Vineyard Dedicated at Ball Mill on March 30 -- by Jo Schaper



*Photo courtesy of L-A-D Foundation*

Eugene and I went to the Ball Mill Resurgence north of Perryville on March 30 to attend the dedication of a monument/plaque for Jerry Vineyard. He would have loved it: raining in buckets with high wind, a frog-strangler Karst happens! storm, with slick mud just to get from the car to the Schafer barn on the Ball Mill property. Eugene dug out his Jerry Vineyard Fan Club T-shirt, and I got out my button—items we had created for his retirement in 1997. Eugene's shirt still fit!

This was an L-A-D sponsored outing; Kay Drey, Leo's widow, was there, Helen Vineyard and his girls and grandkids, Susan Flader, John Karel, Greg Iffrig, Jerry Pruett (assistant state geologist), MDC people and lots of cavers, including Jim Sherrell, Stan and Kay Sides, Chad McCain, Dan Lamping, Tony and Mary Schmitt and others including the Perryville mayor Ken Baer, and local Perry County landowners. We were supposed to go to the monument, which is near the Ball Mill, but it was too muddy to drive there except in four wheel —and they had contracted with a 15 passenger van, which threatened to get stuck at the gathering place!

So we were in an open, well-lit barn chatting. Then the wind took up and the lightning flashed down and the

weather got even worse, so about 50 of us herded into a very dark side shed for the speechifying...was very much like being underground, where Jerry loved to be. It stormed the whole time, through all the stories....

Don't know if you know of the Ball Mill Natural Area, containing the Ball Mill Resurgence. If not, it is a geologic curiosity worth the trip...on Perry County 916 off Hwy. V out of Brewer. It is one of a series of openings of an estavelle; a karst structure that takes water when it rains and the ground is dry; when it is sodden like now,

it emits water like a spring. In the case of the ball mill, it is a "cup" at the base of a bluff; when it is emitting water, it churns natural stones round and round like a ball mill, turning them into fist to bowling ball sized spheres. When running, people say it can be heard up to a mile away.

Now, what other people would have a great time to be in a muddy dark shed, and outside in a thunderstorm to dedicate a plaque to a friend? Just us zoey cave/karst enviro people!

**Missouri Speleological Survey Files Report for March, 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. **Kirsten Alvey-Mudd sent:** -A bunch (37) of faunal records, cave descriptions and entrance photos, all in Stone County. The caves include Gideon, Hootentown Spring, Indian Creek, Maddox, Maples, Maples Spring, Powell and Saltpeter Caves. And in an area of less than 10 acres with 2 known caves, she finds another new cave, Fossil Spring Cave. Ok, its small but it has a really nice spring flow, but not always! -Then a bunch (49) of faunal records for Texas County: Bat, Brayer, Cathedral, Ford, Morgan Cave (#1-3), Oneroom, Potato, Ride-In, Twin and Witch Caves. Although one of these caves is fairly new, the other names are all new to the database. Well, the local names only recently got into the database. Eleven of the caves have been known since the 1960s and only recently have they been described and surveyed. Entrance photos were also taken. -And 29 more faunal records in Lincoln where she monitored the 2 entrances of Mayes Cave, then 2 caves of the Lost Cave "System" with 4 separate cave entrances, plus Dwyer, Gentry and Lowenhopt Cave. She also sent entrance photos for these caves. -A new location for an old cave. While adding information on the above Lincoln County caves, we recognized that there was an old cave, Silex Cave that was mis-spotted. This has now been corrected and then supplemented with directions, photo and description. **Jon Beard sent:** -4 new caves in Christian County: Wetbelly, Broken Down, Hydrangea and Hard Rock Caves. Waiting on details to come. This includes his Main Table additions, Faunal Records and Use Monitoring entries to the cave database. **Matt Beeson sent:** -3 new cave locations in McDonald County: Cave No More, Waterfall Ledge Shelter, Green Briar Refuge Caves. **Mark Brooks sent:** -A trip report for Onyx Cave in Howell County. Survey is ongoing, but over 2000 ft. surveyed so far. **Jim Cooley sent:** -A new cave location for Beaver Creek Cave No.2 in Taney County. Turns out the nearby Beaver Creek Cave (No.1) was in need of a gate, since the entrance is right on the road and a rescue had to be performed there recently. The smaller No. 2 cave nearby was thought at one time to connect to the bigger cave but on further inspection was found not to connect. **Derik Holtman sent:** -24 photos from the sinkhole clean up in Ste. Genevieve County at Grandpa's Hole, a new MCKC managed property. **Scott House sent:** -A final map of Dragon Den (SCL=40) in Osage County. Who said all the caves have been found already? This is a new cave for the database in a county which hasn't had a new location this century! Fortunately a landowner knew a landowner and we got permission to survey this cave and add it to the cave record. **Joe Light sent:** -2 "photo" (map imagery) essays on impacts on the karst in St Louis County. One was a large sinkhole that was being used to drain nearby areas, but the sink got backed up, so it was excavated a bit showing a distinct open joint. The other covered recent sewer work through an area of known caves. The sewer district reported back that their design was created to avoid the karst features and specified that only district employees and contractors would be able to inspect the new sewer work. -A photo essay and 2 written reports for Shady Valley Mill Cave in St. Louis County. MVG Grotto has begun a survey of the cave. -A sinkhole assessment (with photos) of Tilles Park in St. Louis County. He found 11 sinkholes in this one park and provided locations for each. These reports get filed in the archives under the Karst folder, but in this case will also get filed in the leads folder. Lang Brod, back in the 1960s, identified 12 leads in the county one of which is in Tilles Park. -A list of "false" statements that were recently published online about Cherokee Cave in St. Louis city. **Jim Ruedin sent:** -6 Use Monitoring forms for 6 caves visited in Carter County: Buzzard, Camp Yarn, Lower Camp Yarn, Mosquito, Turley and Tucker Spring Caves. GPS locations, 4 faunal records and entrance photos were included. **Tony Schmitt sent:** -An improved locations for Long Ridge Cave in Franklin County, then went on to add two new caves in the next valley. All three are small. -Reports on 4 caves in Shannon County: Laxton, Frustration, Mayu Spring and Jims Creek Spring Caves. Mayu and Jims are new caves that bring Shannon County now up to 693 caves, only a dozen caves from catching up with Perry County. Descriptions, directions, location and photos were provided for all four. Most were small caves, but he also filed 4 faunal records. -Reports, faunal records and photos on Brazil Pit Cave and Sinkhole Cave in Washington County. Brazil is in need of a

cleanup and maybe restoration while Sinkhole is still missing the hole; cave is plugged! -A nice report on a “modest” shelter in Jefferson County, Haunted Valley Cave. There are lots of shelters like this one throughout the county, and this one wouldn’t shelter anyone with a waterfall over the lip of the shelter that forms a pool under the dripline.—Ken Grush

**Kansas City Area Grotto (KCAG). Mar. 21<sup>st</sup>-25<sup>th</sup>** – Jim Cooley led a team consisting of Jay Bridgewater, Joe Williams and Margot Willums (MSM), Aaron Thompson, Kirstin Alvey-Mudd (Missouri Bat Census), Max White and Cheryl Paulson (SPG), Seth Colston, Greg Herin and his wife Shannon and son Christian, Mark Collier (Talking Rocks Caver), Stephanie McCarty (SPG), Doug Baker (SPG), Tom Fowler (SPG), Tyler Smith Adrian Daniels, and the landowner and his wife and two sons, to gate two caves on the landowner’s property near Reeds Spring, MO. The remote locations of these caves made sure that there was plenty for everyone to do, and the rain made sure it was challenging. Kirstin served some amazing meals to the entire crew, including hot soups or hot chili at lunch, which kept spirits high. A large quantity of trash was also removed from the roadside running through the landowner’s property. **Mar.**



*New cave gates near Reed’s Spring, MO*



**26<sup>th</sup>** - Jim Cooley and Aaron Thompson (Boston Mountain Grotto) repaired two cave gates on the Mark Twain national Forest, in Barry County under the

CRF cave and karst management agreement with

MTNF. **Mar. 27<sup>th</sup>**- Cooley and Thompson visited a city park in Arkansas to design a full cupola cave gate over a pit, required for public safety. **Mar. 29<sup>th</sup> -**

**30<sup>th</sup>**- Jon Beard (SPG) and Pic Walenta led the first of many restoration trips to Old Spanish Cave, near Reeds Spring in Stone County, Missouri. Other participants included DJ Hall, Seth Colston, Jeff Bowman, Max White (SPG), the landowner and his two sons, and others... The crew accomplished their goals of removing all the X-rated graffiti at Old Spanish Cave, and training some new cave conservationists. Despite the unfavorable weather, high winds destroying two awnings, torrential rains and cold temperatures, they had a crew of 13 troopers. The next Old Spanish restoration trip will be in May, keep an eye on the KCAG Facebook page for details. You can also view more



*Repaired gates on MTNF*



*Old Spanish Cave trash Cleanup*



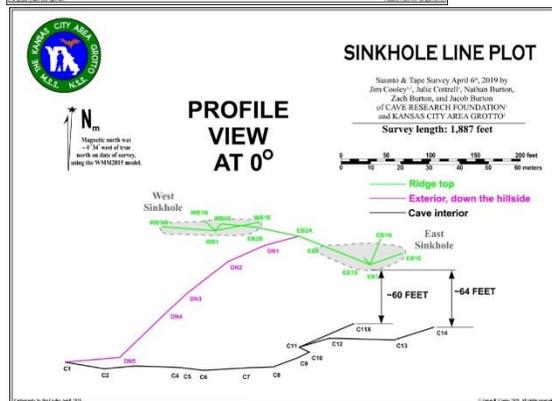
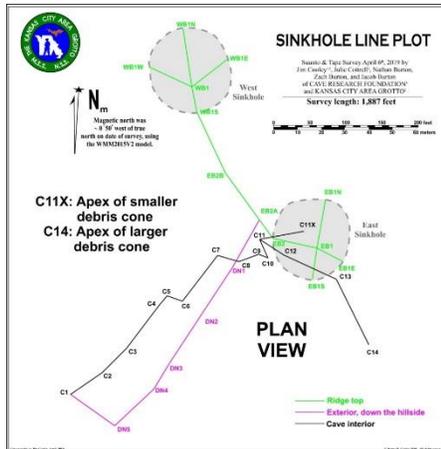
*Old Spanish Cave Restoration*



*9/13<sup>ths</sup> of Old Spanish Cave Restoration Team*

pictures on KCAG Facebook page. **Mar. 30<sup>th</sup>** - Bill Gee led a cave survey trip to Stark Caverns in Morgan County, Other participants included Shannon Robinson, Chaz Jesiolowski (LOG), Matt Beeson (SPG), Amanda Beeson, Mike Beeson, Rebekah Beeson, and Shasha Rhea. The team continued the survey of the tourist sections of the

cave. Beeson and Gee sketched. The new survey now stands at 904 feet. **Apr. 2<sup>nd</sup>** - Rick Hines led a work day at the new Carroll Cave property. Other participants included Bill Gee, Bruce Archambault (Big Caverns Ranch, Roubidoux Grotto), and Shannon Robinson. The team set up some silo panels to be a wind break, tested the new cable descenders, and installed a standoff at the top of the ladder so the cable does not slap against the ladder as much. They then evaluated some electrical issues, and tried to install a tension relief on the power cable going to Bill Pfantz's trailer. They also talked with the men who own land on both sides of the fence. **Apr. 5<sup>th</sup>**- Jim Cooley, Julie Cottrell, Aaron Thompson (BMG), and Dillon Freiburger met with Bruce Caldwell, Chief of Natural Resources for the U.S. Army Corps of Engineers' Bull Shoals and Norfolk Lake projects, at Kisse Mills,



MO. The objective was to assess a two-entrance cave there for gating. This cave was the site of a spelunker entrapment last fall, thus earning it an official designation as an “attractive nuisance,” which in turn made it a priority gating candidate. Despite some minor logistical challenges, the project appears feasible and ecologically sound. The two-entrance cave turned out to be two separate caves, with no connecting internal passage. Both will be gated. In addition, no maps exist for these caves, so Freiburger and Thompson will be undertaking a survey project for these caves as soon as MDC & USFWS approvals can be obtained. Lastly, Caldwell agreed to meet with Cooley in the near future to discuss some other property that might just have some caves on it – 92,000 acres of other property along the Missouri/Arkansas border, actually – with an

eye toward identifying and mapping all of its caves, and establishing a cave monitoring and management program, presumably under CRF auspices. **Apr. 6<sup>th</sup>**- Cooley and Cottrell met with the landowner and his two sons at a closed show cave in Stone County. The landowner was interested in how two very large sinkholes on the surface directly above his cave related to three very large ceiling collapse debris piles inside the cave. The five surveyors ran 1,887 feet of line plots from the exterior sinkholes to the apex of two of the debris piles, and learned some surprising facts. The biggest sinkhole was directly above the middle-sized debris cone; the smaller sinkhole probably associates with the debris pile that time precluded extending

the line plot to. And the largest underground debris pile seems to associate with no surface disturbance whatsoever. After additional line-plotting in the future, surely more will be revealed. **Apr. 12<sup>th</sup>-13<sup>th</sup>** - the grotto held a “Taste of the Wild Side” vertical skills training and refresher weekend at the cliffs at Truman Lake, outside of Warsaw Missouri, which many attended, sponsored in conjunction with Missouri Bat Census and Wander Woman, an outdoor activities club. Friday night

MOBat served a Swedish smorgasbord, and Saturday night Wander Woman served a wild game dinner.--Jim Cooley

**Meramec Valley Grotto (MVG). Feb. 22<sup>nd</sup> – 25<sup>th</sup>:** Tony Schmitt, Craig Williams, Dan Lamping, Joe Sikorski, joined by Jeff “Spike” and Izzy Crews mapped and inventoried a new cave on L.A.D. Foundation Land. The cave was found by Tony and Mary Schmitt in a remote area near Chalk Bluff. The cave turned out to be short, but had a very nice entrance. Total footage 105.6’. We did a bit of ridge walking in the area not finding anything else, but tacking up about 5 miles of Bushwhacking. We then went to check out a cave lead in the general vicinity. We located a new cave, this one on Ozark National Scenic Riverways. Again a big beautiful entrance, over 50’ wide,

and 12' tall, but held only 61.2' of survey. **Mar. 2<sup>nd</sup>**: Tony Schmitt, Joe Light, Jim Ruedin, Dan Lamping, Derik Holtmann, Craig Williams, and a landowner started mapping a new find in the Oakville Area. The survey was bagged after 150' or so, but almost 800' of cave was seen, with no end in sight. A good find in the middle of suburban St. Louis area. **Mar. 15<sup>th</sup> -17<sup>th</sup>**: A large Group of Tony Schmitt, Joe Light, Jim Ruedin, Rick Haley, Dan Lamping, Joe Sikorski, Josh Hafner, Craig Williams, Mark Andrlich, Alex Litsch, Bob Lerch, and Kathy Sovulewski did a bit of ridgewalking near the upper reaches of Blair Creek, Shannon Co., MO. Two caves that were in the MCD with questionable location were found, correct locations acquired, bio inventoried, and description noted. We also found two new caves for the files and several undocumented springs, one being at least 2-4cfs. Some of the group totaling up over 15 miles of bushwhacking over the course of the weekend. **Mar. 10<sup>th</sup>**: Michele Leicht and Larry Abeln visited Soehl Cave in Perry County. 3 hour trip. They also looked at sinkholes around Perry County. 2 needing clean out and 2 with pits breathing air. **Mar. 23<sup>rd</sup>**: Mark Brooks, Brian Biggs, Sammy Wentz, Derik Holtmann, and Matt O'Neal surveyed the Walker Section of Berome Moore Cave. 979.9' surveyed. **Also** Joe Light, Dan Lamping and family, Darrell Routt and kids went to Hamilton Hollow Cave in Meramec State Park. **Mar. 24<sup>th</sup>**: Mateo visited a small cave in volcanic crater in Yuriria, Mexico. **Mar. 30<sup>th</sup>**: Jim Ruedin, Darrell Routt, and Marcy Allen monitored 6 caves in Carter County for MTNF (CRF). **Apr. 6<sup>th</sup>**: Jeremy Weih and Alex Litsch surveyed Cathedral Chasm Cave, a 120' deep pit cave in Ste. Genevieve County. Also explored nearby, virgin caves. **Apr. 12<sup>th</sup>**: Chad McCain and Alex Litsch visited Grandpa's Hole Cave in Ste. Genevieve Co. to start pulling tires out of the pit in preparation for the large May cleanup. **Apr. 13<sup>th</sup>** : Alex Litsch, Derik Holtmann, Tony Schmitt, and a SEMO Grotto member returned to Grandpa's Hole Cave to continue preparing the site for the cleanup and pull more tires out of pit.—Alex Litsch

**Lake Ozarks Grotto (LOG). Mar. 11<sup>th</sup>** – Gary & Alberta Zumwalt helped Klaus Leidenfrost clear some trees that were going to fall over the fence at Goodwin Sinkhole and cleaned up some brush. Kerry Rowland and his daughter, Kira, took a month-long trip to Thailand and visited caves. It was Kerry's third trip over the years and Kira's first. They had beautiful pictures to show at our April Grotto meeting. Dwight Weaver did a presentation at our meeting on his history of caving and book writing. **Apr. 7<sup>th</sup>** – Ken Long, Gary & Alberta Zumwalt made a trip to Stover to check out a landowner's farm for caves. It was a very interesting area. Ken did some witching. Possible cave there but no way to get into it.—Alberta Zumwalt

**Springfield Plateau Grotto (OHG). Feb. 16<sup>th</sup> – 17<sup>th</sup>** --- Chad McCain, Michael Bradford, Matt Bliss, Gary Resch, Jeremy Weih, Craig Buschkoetter, Mark Brooks, Cody Brooks, and Sammy Wentz surveyed 1400 feet in the Cacklebur section of Mammoth cave. **Mar. 2<sup>nd</sup>** —Brandon Van Dalsem, Casey Scarlet, Hannah Sanders, Nicole Ridlen, Brian Moore, Treavor Bussard and Jon Beard conducted SPG's annual bio transect study in Sequiota Cave (Greene Co). First the group checked and documented biota in the cave's North Creek passage, then the East Creek passage. In each five drops of a 12" by 12" PVC square is dropped, and biology noted in a five-minute span before moving on to the next drop. **Mar. 9<sup>th</sup>** -- Ben Damgaard, Corey Maize, Dillon Frieburger and Kayla Sapkota surveyed over 130 ft. of Miners Crack Cave as part of an ongoing CRF project on the Buffalo River **March (12 trips)**—Jon Beard continued his detailed survey of the upper levels of Fantastic Caverns (Greene Co) including all of the sections seen by visitors on cave tours. The map is now finished and will be submitted to the cave management and the Missouri cave files when peer review is done. **Mar. 16<sup>th</sup>** ---Mark Brooks, James Gould, Corey Maize, Mike Shreiber and Sammy Wentz begin the survey of Madison County Mine, Corey and Mike had equipment failure. While James and Mark on disto with Sammy sketching, pushed out around 600 feet of survey. **Mar. 23<sup>rd</sup>** --- Brian Biggs, Mark Brooks, Derek Holtmann, Matt O'Neil and Sammy Wentz mapped two passages through the Toothpaste Tube in Berome Moore Cave. After splitting into two teams Mark and Matt headed in the Eastern Passage while Brian, Derek and Sammy headed into the Western Passage. Brian and Derek ran disto while Sammy sketched. Together the two teams smashed 978 ft. **Mar. 30<sup>th</sup>** —Jon Beard, Hannah Sanders, Mark Collier, Matt Bumgardner and Max White from SPG joined KCAG's Pic Walenta and DJ Hall as well as the owner and his two sons in trash and graffiti removal in Old Spanish Cave (Stone Co). The cave is a former show cave that has been grossly vandalized the past 40 years or so. The group removed all remaining trash and perhaps half of the spray paint graffiti including the most offensive stuff. One or two additional trips might finish the project.--Report by Max White, materials provided by Jonathan Beard, Dillon Frieburger and Sammy Wentz

### **MSS OFFICERS:**

**President** – Dan Lamping, 4501 Clarlane Dr., St. Louis, MO 63128 314-775-8584 daniellamping@att.net

**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** – Krista Bartel, P.O. Box 193, Versailles, MO 65084 816-812-5206 Kbartel1088@gmail.com

**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 39<sup>th</sup> 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. 816-646-3240 lodaniell@yahoo.com

**RBD** - Dan Slais, 23646 Red Hawk Dr., Lebanon, MO 65536 573-619-2733 dnbslais@outlook.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

### **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](http://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](http://rockartmo.com)

### **CALENDAR:**

**May 5<sup>th</sup>** – Spring MSS meeting, 10 am., Tom Aley Underground Lab, Protem, MO. Mapping in the cave on Saturday.

**May 18<sup>th</sup>** – MCKC Meeting, Waynesville, location to be determined.

**June 7<sup>th</sup> – 9<sup>th</sup>** – Spring MVOR, hosted by Club 69, Ottery Creek near Black, MO.

