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CAVE RESEARCH FOUNDATION

QUARTERLY NEWSLETTER
VOLUME 39, NO. 2

MAY 2011



MAMMOTH CAVE REPORTS

Reports start on page 6

CRF NEWSLETTER

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Send all articles and reports for submission to:
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The CRF Newsletter is a quarterly publication of the Cave Research Foundation, a non-profit organization incorporated in 1957 under the laws of Kentucky for the purpose of furthering research, conservation, and education about caves and karst.

Newsletter Submissions & Deadlines:

Original articles and photographs are welcome. If intending to jointly submit material to another publication, please inform the CRF editor. Publication cannot be guaranteed, especially if submitted elsewhere. All material is subject to revision unless the author specifically requests otherwise. For timely publication, please observe these deadlines:

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Before submitting material, please see publication guidelines at: www.cave-research.org

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Restoration Field Camp Carlsbad Caverns National Park June 26-July 1, 2011

This camp is open to anyone 18 years of age or older no matter their caving experience. It is a great opportunity for new cavers to learn about cave conservation, restoration and etiquette. They will receive instructions and guidance and we will be performing meaningful cave restoration projects at the Park all week. It is also a great camp for experienced cavers and restorationists, too.

We will be performing various cave restoration and conservation projects in the cave on behalf of Carlsbad Caverns and enjoying our off times together. We will be staying in the historic research huts just a short walk from the Natural Entrance. The evening bat flights visible from the porch are particularly grand. The cost of the camp is being kept to a minimum and the mood will be casual, friendly and fun.

The camp is being organized by William and Tammy Tucker on behalf of the Cave Research Foundation.

If you are interested, contact William Tucker (william.tucker@att.net) and you will be sent further details and an application. Camp space is limited and the deadline for contact is May 15.

CRF National Expedition

Make your plans now! The 2011 CRF National Expedition will be in Mammoth Cave National Park. The dates are November 21-29, 2011. Contact the expedition leader, Dave West, d270@bellatlantic.net, for more info or to sign up.

Cover Photo

Ed Klausner climbs the ladder into the Labyrinth section of Mammoth Cave, while Elizabeth Miller watches, during the July 2008 CRF expedition. Photo by Ralph Earlandson.



From the President:

By: Scott House

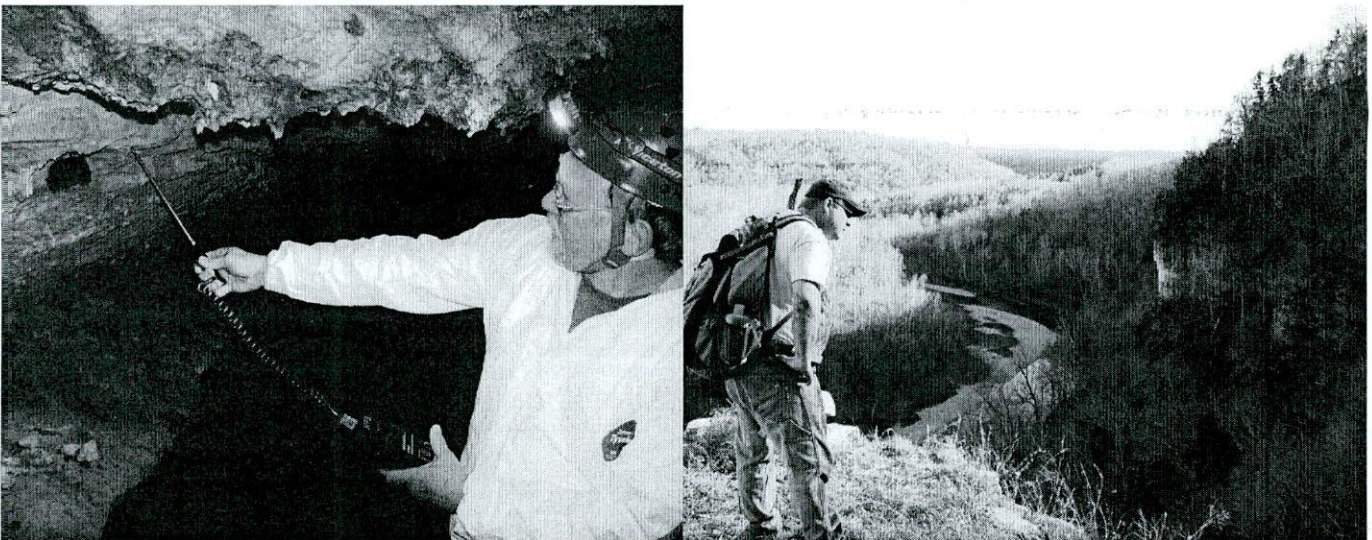
Hopefully everyone has recovered from the nasty winter. It certainly cut into field work, and numerous trips here in the Ozarks were canceled due to weather concerns.

Regular monitoring of caves here in the Ozarks went forward with special emphasis on detecting any signs of WNS in bats, whether at the entrance or in hibernacula. We counted plenty of bats over the winter but no signs of WNS on any of our trips. Obviously, proper "decontaminating" was a major part of our lives; let me tell you, a Tyvek suit is not one of the more comfortable caving outfits I have worn. One of the heartening responses has been that the public is asking many questions about the situation and what can be done.

New initiatives are on their way. CRF has signed a new national agreement with the US Forest Service. This should pave the way for projects to resume on USFS lands across the country. Certainly there are plenty of opportuni-

ties for doing projects under the CRF umbrella. We continue to work on a new national agreement with the National Park Service, and we are working on a new operating agreement with Lava Beds National Monument. In this age of WNS, we have both new restrictions and new opportunities. The new opportunities present themselves because CRF is a trusted partner of state and federal agencies. Without national agreements, local agreements with caving groups are not likely to occur.

The winter did bring a lot of general work for us in the Ozarks. An occasional thaw let us out to hike and find new caves. Our folks made good inroads on survey in Buffalo National River, Mark Twain NF, and Ozark NSR. There is lots of enthusiasm at Mammoth Cave, judging from the 50 people in attendance at the February expedition. New folks are taking on new areas of the system and exciting products are being created.



Left: *Wearing a disposable suit, Scott House takes a rock temperature near a small group of clustering bats in Ozark NSR. Photo by George Bilbrey.* Right: *Searching for caves, Tony Schmitt looks out over the canyon of the Jacks Fork River in the Ozark National Scenic Riverways. Photo by Scott House.*

REGIONAL EXPEDITION REPORTS

Carlsbad Caverns National Park, March 2011

By: Scott House

Following up on an expedition of 2010, Ed Klausner and I went to continue work on a more detailed survey of tour trails in Carlsbad Caverns. The primary objective was to fix loop errors which had stymied map production.

After a long drive from Buffalo National River (and an obligatory stop at La Tienda market in Carlsbad), Ed and I made it to the CRF hut on Tuesday, March 8, and set about getting our gear ready for the next day. We also spent considerable time working on the existing data. Ed had already spent a lot of time converting data into a Walls format that we were comfortable with.

We met Stan Allison at the cave resource office pretty early; then the three of us headed into the cave. Our immediate objective was to close a couple of additional loops which would enable us to better analyze where the potential errors were. We put in survey in the immediate area of the Iceberg Rock, closing a loop down the old, historic but rotted, stairs on one side, and finishing a loop on the other side. We also tied the survey net to another of the old, but ac-

curate, Rohrer transit stations. Lastly we tried to fix errors in the area of the Kings Palace but gave up when the survey data and sketches did not match. We spent the rest of the day working on data.

Thursday, March 10, Ed and I entered the cave and began by tying in one end of the Music Room surveys (MA) to the new A survey. Having accomplished this we worked on creating a couple more loops for analysis. We retreated to the hut for lunch, entered data, and identified a couple more likely survey errors.

After lunch we went back into the cave, fixed one erroneous shot (identified by Walls) and went on to the Kings Palace where we tied a couple of stations together to try to fix that area (it did not work).

On Friday, we returned to the Kings Palace and put in enough survey to fix that area. Gradually the data began looking better and better. On Friday night, welcome reinforcements showed up in the form of William and Tammy Tucker.



Left: Tammy Tucker reads the Suunto from a comfy station - by Ed Klausner. Right: Ed Klausner and "Survey Dog" (the little light holder - Ed's reading the compass) are on the job - by Scott House.

Saturday, at full survey crew strength, we put in several hundred feet of survey, which solved a number of problems. The last few shots tied into a brass cap and we worked around the large visitor crowds to get that done.

On Sunday, William, Tammy, Ed, and I met with Stan and worked on a strategy to deal with

old CRF maps and other data stored in one of the huts. Over the course of the week, we put in a lot of important survey (the exact footage is a fairly useless figure considering what we were doing) and most importantly, improved the data tremendously. All of this work was in support of a new 1:600 map series.

Ozark Trips, August - October 2010

By: Mick Sutton

Information and some text are from Scott House, Jim Cooley and Kayla New

The Ozark National Scenic Riverways (ONSR) trips for August 1 – 4 were described in the November 2010 CRF Newsletter.

August 5: Scott House and Mick Sutton met with Mark Twain National Forest (MTNF) staff Kelly Whitsett and Theresa Davidson at the MTNF Salem office to discuss cave monitoring protocols and other priorities.

August 21: Kayla New and Chad Holderfield finished the remaining downstream survey of Copperhead Cave at Buffalo National River (BNR), Arkansas. They also looked again at the resurgence and found it could not be traversed all the way through to the downstream cave. This leaves a small amount of clean-up survey still to be done.

August 28: Mick Sutton, Sue Hagan, Mike Tennant and Natalia Kolk-Tennant continued the upstream survey in Chimney Cave (MTNF, Washington County). We mapped one short side passage then continued the upstream survey beyond a deep mud wallow to an apparent end. This proved illusory, however, and the cave continues via a narrow rift into more large, high passage. Reference to the old sketch map revealed that it does show this area, if a little confusingly. Continuation will wait until next spring, to avoid disturbing a small winter colony of little brown bats. Since conditions were dry, we also looked at the downstream end, finding it to be still thoroughly sumped.

On the same day, Scott House took a group from SE Missouri State University to Round Spring Cave (ONSR) for an educational tour of the main tourist route.

September 11: Jim Cooley, Jenny Bentz, Craig Hines, Chandra Ruff, Max White and Kayla New started the survey of Little Hurricane Cave (Mark Twain NF, Oregon County), and finished the survey of Black Dagger Cave nearby. Jim and Jenny also did reconnaissance work to locate a base camp for an upcoming survey of Canyon Cave further up the Little Hurricane drainage.

September 12: Max and Jim documented a new cave, Boxwork Fragments Cave (MTNF Oregon County), high above the Eleven Point River in an area reported to have at least eight new caves. Several other promising holes were located, some of which will require vertical equipment to access.

September 18-19: On September 18, three crews surveyed at BNR. Kayla New and Chad Holderfield returned to Copperhead Cave and found that the expected clean-up survey at a partial choke led to a surprisingly large amount of well-decorated passage. It does end, and Kayla and Chad will be back with a larger crew to finish it. Jeff Bridgman, Joshua Shock and Meghan Gallo did an initial assessment of Novak Spring Cave, in preparation for continuing the 2004 survey. This was despite the access road being blocked by fallen trees. The cave is more than 2,000 ft. long, and rather low and wet in places. One complication is that tie-stations from the 2004 survey could not be located. Jared Sickles, Dewayne Agin and Julie White worked at locating a large number of entrances, many of which remain ambiguous. In the process, they also found two new caves and took biological notes, including one inconveniently located copperhead.

The next day, Chad and Sarah Holderfield, Jared Sickles and Julie White surveyed Valley Y Cave. The cave features 130 ft. of crawlway and a free-climbable (if barely so) pit. Biological observations were recorded. Kayla New, Joshua Shock, Meghan Gallo and Deb Thompson failed to clear up some of the ambiguities from the location trip the previous day, but instead found a new cave - Mistaken Identity – and began mapping it before running out of time. It too features a tricky pit, also a resident armadillo.

September 19-22: There was a trip by Jim Cooley, Ken Grush and Larry Shaffield to monitor the condition of a baker's dozen of caves (13, for the uninitiated) at ONSR. The enterprise was cut short by a pulled muscle which occurred on the surface, conveniently close to the vehicles.

September 23-27: The survey of Canyon Cave (MTNF Oregon County) was begun by Jim Cooley, Dave Mead, Greg Herrin, Larry Shaffield, Rick Hines, Kay Hines, Craig Hines, Max White, Shawn Williams, Kyle Rybacki and Kayla New. The various teams mapped a total of about 800 ft., with more to go. The survey of Little Hurricane Cave was also completed by Kayla and crew.

September 29: Jim Cooley accompanied Scott House to set a closed sign on Anderson Cave (ONSR, Dent County). The next day, Jim led two National Park Service biologist subcontractors to inventory Whiskey Spring Cave, Flat Hole Cave, High Arch Cave and Bay Creek Camp Cave (ONSR, Shannon County).

October 10: A party led by Bob Taylor (personnel not known to this writer) continued the survey of Cob Cave at BNR.

October 20: Jim Cooley and Kathy Bovard located Buck Ridge Cave and Brick Cave in the Piney Creek Wilderness (MTNF, Barry County.) These both had inaccurate recorded locations and an earlier effort to find them had failed.

October 22-29: Ozark Operations had a small social event at ONSR headquarters in Van Buren. Attendance was gratifyingly high and a good time was had. Details of the Directors' meeting, the CRF Annual Meeting, and the following week-long caving expedition appeared in the February Newsletter.

Mammoth Cave: August 14, 2010

By: Roger Brucker and Lynn Brucker, Co-Leaders

Tom Brucker was taking Nathan Brucker to college at Case Western in Cleveland, so arranged for Lynn and Roger to lead the August expedition. Eighteen cavers showed up, a light expedition as Tom had promised. Roger McClure, Dan Greger, Joyce Hoffmaster, and John Fiel did surface maintenance tasks-- mowing, removing an unused cistern and some wiring, plumbing repairs and shower sealing, and finally consulting with the contractor who will start to construct the new CRF Archive Building. They signed the contract for the 60-ft. x 60-ft structure, to be completed by the end of November.

We fielded three parties into Mammoth Cave and surveyed a total of 407.5 ft.

Rick Olson led a large party into the Historic Entrance and down to River Hall. Tammy Otten, Elizabeth Winkler, and Anne Griggs went to River Styx to describe an old tourist boat recently washed up, apparently from the depths of Lake Lethe. Water was 1.5 ft deep at the Natural Bridge end and twice that deep at the far end. The black and waterlogged boat measured 18-ft long x 3.8-ft wide with a tapered bottom on each flat end. It was held together by square-cut nails that probably will date the boat to the 19th Century. It was the old practice to dispose of boats that had outlived their usefulness by submerging them in the Echo River outflow passage. Tammy Otten sketched the boat to scale and made photographs.

Charles Fox and Rick Olson split and went up Carlos Way to see if the recent flood had cleaned out the sand creating a downstream sump that blocked progress. Two years earlier Rick had penetrated 25 feet beyond the low spot

that later sumped due to sand deposited. Alas, the sump was still blocked with sand.

Charles and Rick returned to the others and commenced an inflatable boat flotilla saga. They carried boats to the Third Arch and launched on Echo River. Only one boat launched: Rick's new vessel had a defective air valve. The sailors paddled back to the Second Arch, then they measured 45m either way from an arbitrary point to create a bio-sampling reach (CAEM = Cave Aquatic Ecosystem Monitoring) that is devoid of anchors for monitors. Pencil marks on the walls show the limits of this future research zone. In the future researchers can census the critters within this limited zone with assurance they are sampling a geographically defined section of the river. Tammy took photos to show distinctive wall solution features so the zone limits may be found again regardless of flooding. Dr. Kurt Helf, a NPS employee stationed at the park, will be conducting this sampling under the direction of Dr. Bill Pearson, University of Louisville.

The First Arch was checked from both sides and was completely sumped. There was not time to check Roaring River for potential water inputs for road salt monitoring during winters.

Lynn Brucker led Matt Keller, Tim Green, and Samantha Sterman into Frozen Niagara Entrance to continue the A survey in lower Kentucky Avenue. They entered a hole at the Big Break and into Fox Avenue and proceeded to A30. It was difficult surveying and sketching because the openings led through breakdown, often with no solid wall visible. They made several survey ties. This part of the cave appears to have been explored after George Morrison

opened the New Entrance. At A30 are the following names on the wall: Carl Nickerson, Roy Jagger, Erastus Chapman, 1920 CPM Roy Gipson Oct 17 22, Earl Morrison, Lacy Neville 9-30-21. At AM2 is G D Morrison 1921. The party made 45.3 ft of new survey and 86.4 ft of resurvey.

Scott House led Rick Toomey, Nao Fukubayashi, and Marisa Moldonado into the Frozen Niagara Entrance to survey some hanging odds and ends related to Fox Avenue and Kentucky Avenue. They surveyed between two USGS Walker Survey stations, TT37W and TT37WAZ. The benchmarks were floated so there was no way to tie CRF survey data to them. They found an unsurveyed tube/canyon starting at Y1 to B13 of the Fox Avenue survey and put in a new survey. They then surveyed an upper level tube for 60 feet, and found a going lead off that. More work needs to be done cleaning up these

odds and ends of unconnected surveys. The party went to Grand Central and tied an engineering survey to the Nail in the Rock, which is tied to other surveys, including an old benchmark. Pits in the N7 area need to be checked, along with the entire area from Grand Central up to Big Break and down Big Gypsum. Probably a new high quality survey with recoverable points is needed in this area. The party placed 194.6 ft of new survey and 81.5 feet of resurvey.

Roger Brucker managed the camp and cooked, with the help of Joyce Hoffmaster and Scott House.

Mammoth Cave. 1. **Carlos Way, Echo River, River Styx.** Rick Olson, Charles Fox, Tammy Otten, Elizabeth Winkler, Anne Griggs. 2. **Kentucky Avenue.** Lynn Brucker, Matt Keller, Tim Green, Samantha Sterman. 3. **Fox Avenue and Kentucky Avenue.** Scott House, Rick Toomey, Nao Fukubayashi, Marisa Moldonado.

Mammoth Cave: Labor Day Expedition, September 3-6, 2010

By: Bob Osburn, Expedition Leader

Camp Managers: Larry and Jennifer Pursell

The 2010 Labor Day expedition was small but pretty well supplied with qualified people. Twenty-two people signed in for part or all of the expedition and several more visited camp. We had Chris Atchison, a visiting researcher and his family (wife and three well behaved kids), in camp as well as Shannon Trimboli and two additional researchers brought in by Pat Kambesis (names not recorded). We also had Matt Neimuller, a University of Tennessee fish researcher, until Sunday. Eleven trips went into caves, six on Saturday and five on Sunday for a total of 460 volunteer hours. 1500 feet of cave were surveyed, 705 new and 826 resurvey. I admit that productivity was low. A couple of trips were not intended to produce survey and the one trip leader almost guaranteed to produce abundant survey chose a diminutive dome drain for his attentions. Larry Pursell relieved me of all camp and cooking duties which he performed admirably so I was unusually relaxed this trip.

This was the first expedition to contend with the new NPS rule that each ridge is a separate WNS entity and thus materials that cave in one ridge cannot go to another without decontamination. We contended with this by sending folks back to the same ridge when possible and by wearing other gear for a second trip. Decontamination materials were available for small items such as lights. This system seems to work for old farts with redundant gear but perhaps less well for younger cavers. Tim Green kindly decontaminated survey gear as it returned.

Ed Klausner led Rick Olson, Charles Fox, and Ashley Gholson to Watson Trace where they finished the upper level lead. This had been flagged ahead to where artifacts decreased and it in fact ended soon after the flagging stopped. This finishes all of the likely leads in Watson Trace with only a few things needing a final look. They then went to Great Relief Hall where they mapped a small and obscure passage that begins in Fat Man's Misery and proceeds below Tall Man's Agony toward Great Relief Hall. It ends near Great Relief Hall and a voice connection was possible. Apparently this passage was formerly accessible from Great Relief Hall as historic signatures were found there as well as a latrine foundation (200 feet).

Bill Koerschner, Heather Levy, and Matt Mezydlo went to Nougatocity Dome in East Salts where they surveyed the active drain of the north part of the dome until it descended through a chert layer and became too small. Fortunately the foot trap released Bill before he was stuck too long. The wet party checked the drain for the south end of the dome for 30 feet to where it became a challenging belly crawl one foot high with water. Dry weather permitted a better definition of the dome but spray still obscured the big alcove and the source of the water (175 feet).

Lynn Brucker, Elizabeth Winkler, and Shannon Mathey went to Grunge Trail to continue the resurvey. They encountered more water than usual but persevered for 350 feet until they ran

out of time. Dave West, Karen Willmes, and Tim Green went to the Omega-Jones Crossing area in Bedquilt where they sorted out ties, repaired a major loop closure, and resurveyed a small stretch of passage (120 feet).

Tom Brucker, Amanda Matthews, and Rick Hoechstetter went to Colossal River via Bedquilt. They surveyed 240 feet. More needs to be done and since the route is long they recommend sending back a well prepared party able to stay a good while.

Rick Toomey, Matt Neimuller, and Roger Brucker went to Sanders Cave on the north side (Fish Trap Hollow). It is a walking cave which decreases to crawlway above a flowing stream which they entered for a few hundred feet. Matt is a researcher from University of Tennessee studying the genetics of cave fish. Their objective was to capture Typhlichthys and remove a small segment of their tail fin for DNA analysis. They were successful in finding 21 fish and various other creatures.

On Sunday two trips went to the Labyrinth. Dave West and Karen Willmes went to a suspended death rock at M10 to measure for a future bridge. They returned with a proper description and dimension for plastic lumber needed for the installation. It is reported based on old trip reports that some years earlier this EL had taken a party past this point only remarking that perhaps one should not touch the rock. Time however seems to have erased my memory of the place.

Ed Klausner, Nicole Bull, and Tim Green went to continue a passage at the end of the Labyrinth which was wet rather than the damp it was supposed to be and they froze out after 50 feet. The passage continues a few shots to an obstacle that Tim Green could not pass so the passage may be effectively done as we have few cavers smaller. Very small folks in space con-

serving wetsuits who don't mind low crawls are recommended for the return trip.

Rick Olson, Rick Toomey, Elizabeth Winkler, and Charles Fox took inflatable boats up Roaring River to confirm the end of the section used for Cave Aquatic Ecosystem monitoring, search for a natural anchor spot for a marker, recon for vadose input to monitor road salt incursion and look for possible survey leads. They succeeded at reconstructing where monitoring had been done and finding an anchor and made a semi-permanent mark for the biologists. No good vadose candidates were seen but one apparently uncharted phreatic passage was noted and several other potential survey leads may lead to some. I would note that we do not have an active project in that section of the cave at this time.

Tom Brucker, Heather Levy, and Ashley Gholson went to Blue Arrow passage/hole in Salts to sort out blank spots on previous sketches. They surveyed the first side passage to the left and made abundant notes, suggestions and remarks on their copy of the previous sketch (290 feet).

Roger and Lynn Brucker went to the Dixon entrance and enhanced the detail around the entrance adding the surface slopes and drip line. Roger made a very nice sketch and then redrew it on mylar to clarify his intentions. Nicely done (80 feet).

Mammoth Cave - Ed Klausner, Rick Olson, Charles Fox, Ashley Gholson; **East Salts** - Bill Koeschner, Heather Levy, Matt Mezydlo; **Grunge Trail** - Lynn Brucker, Eli Winkler, Shannon Mathey; **Bedquilt** - Dave West, Karen Willmes, Tim Green; **Sanders Cave** - Rick Toomey, Matt Neimuller, Roger Brucker; **Colossal River** - Tom Brucker, Amanda Matthews, Rick Hoechstetter; **Labyrinth** - 1) Ed Klausner, Nicole Bull, Tim Green; 2) Dave West, Karen Willmes; **Roaring River** - Rick Olson, Rick Toomey, Elizabeth Winkler, Charles Fox; **Blue Arrow** - Tom Brucker, Heather Levy, Ashley Gholson; **Dixon Cave** - Roger Brucker, Lynn Brucker.

2011 EXPEDITION CALENDAR

Before attending any expedition, you must contact the expedition leader as trip sizes may be limited. Failure to contact the leader may prevent you from attending the expedition as the trip may be full.

Eastern Operations - Mammoth Cave Schedule

Memorial Day, May 27-30. John DeLong, johnrdelong@yahoo.com.

Independence Day, July 1-10. Dave West and John DeLong, d270@bellatlantic.net or johnrdelong@yahoo.com.

August, August 5-7. Roger and Lynn Brucker, roger.brucker@sbcglobal.net or lynn.brucker@sbcglobal.net.

Labor Day, September 2-5. Bob Osburn, osburn@levee.wustl.edu.

Columbus Day, October 7-10. TBA.

National Expedition - Thanksgiving, November 21-29. Dave West, d270@bellatlantic.net.

New Year's, December 30, 2011 - January 2, 2012. Charles Fox, charles.d.fox@sbcglobal.net.

All Eastern Operations CRF members who have not attended an expedition safety orientation must do so before participating in expedition activities. The safety orientation is scheduled at the beginning of each expedition after the morning meeting. Those who have attended a safety orientation are not required to participate in another. New members should arrange to be at the expedition early enough to attend the orientation. Those who do not attend will not be allowed to participate in expedition activities. Contact expedition leader for more details on the orientation.

Cumberland Gap National Historical Park

Expeditions for Cumberland Gap National Historical Park are the last full weekend of each month except December. Contact: Mike Crockett, mickcrockett@hotmail.com.

Ozarks

Contacts: Scott House, scott_house@semo.net.

Mick Sutton and Sue Hagan, sue&mick@mail.tigernet.gen.mo.us.

California - Lava Beds

Before participating on any of these expeditions, we would prefer you contact the Operations Area Managers, Pat Helton and Bruce Rogers, at least two weeks before the expedition: PatAndBruce@heltonweb.com; (510) 301-2003. Please do not just show up as there may be limits on the number of participants we can accommodate.

California - Lilburn

Some basic rules of engagement for California expeditions: Contact the expedition preferably two weeks ahead of time; please don't spontaneously show up. We have to deal with head count

limits, particularly on our Lilburn trips, so we need to know who is planning to attend.

Lilburn, May 7-8. Fofo Gonzlez, 831-776-5385, gonza142@msu.edu.

Lilburn, May 28-30. Bill Frantz, 408-356-8506, bill@frantzfamily.us.

Lilburn, June 11-12. Marek Cichanski, 650-320-9012, marek.cichanski@gmail.com.

Lilburn, July 2-4. John Tinsley, 650-329-4928 or 650-799-5156, jtinsley@usgs.gov.

Lilburn, August 5-7. Mark Scott and Elaine Garvey, 415-812-2767, mark@deepbrews.com or egarvey@gmail.com.

Mineral King, August 19-21. Mark Scott and Elaine Garvey, 415-812-2767, mark@deepbrews.com or egarvey@gmail.com.

Mineral King, September 3-5. Paul Nelson, 909-225-2852, california_caver@yahoo.com.

Lilburn, September 10-11. Marek Cichanski, 650-320-9012, marek.cichanski@gmail.com.

Mineral King, September 24-25. Joel Despain, 559-565-3717, joel_despain@nps.gov.

Lilburn, October 8-9. Elaine Garvey, 858-922-0360, egarvey@gmail.com.

Clough Cave Restoration, October 22-23. Joel Despain, 559-565-3717, joel_despain@nps.gov.

Mineral King, October 29-30. Mark Scott and Elaine Garvey, 415-812-2767, mark@deepbrews.com or egarvey@gmail.com.

Lilburn, November 12-13. Fofo Gonzlez, 831-776-5385, gonza142@msu.edu.

Lilburn, November 20-21. John Tinsley, 650-799-5156 or 550-243-0732, jtinsley@usgs.gov or howard.hurt@gmail.com.

Paradise Karst, December 3-4. Joel Despain, 559-565-3717, joel_despain@nps.gov.

HSS/CRF Hawai'i Caving - Big Island

Contact Pat Kambesis, 309-762-3860, pnkambesis@juno.com.

Carlsbad Caverns

Contact for all expeditions:

Barbe Barker, barbebarker@gmail.com.

William and Tammy Tucker, william.tucker@att.net.

Memorial Day, May 27-30.

Labor Day, September 2-5.

Thanksgiving, November 23-27.

ADDRESS CORRECTIONS

If you have changed phone number (i.e., area code split), e-mail address, or have moved, please send your information to:

Phil DiBlasi

PO Box 126

Louisville, KY 40201-0126

pjdiblasi@gmail.com

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www.cave-research.org

Contact your operations manager for the user id and password for the members-only section of the site.

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