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CAVE RESEARCH FOUNDATION

QUARTERLY NEWSLETTER
VOLUME 39, NO. 3

AUGUST 2011



QUEEN OF HEARTS ICE CAVE

See Bill Broeckel's report on page 3

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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Attention: New E-mail Addresses for CRF Editors

Both the Content and Layout Editors for the *CRF Newsletter* have new e-mail addresses. Please send all articles and photos to the new e-mail addresses.

For Content Editor, William Payne, the new e-mail is captain-guano@harbhippo.com. For Layout Editor, Ralph Earlandson the new e-mail is ralph.earlandson@gmail.com. The masthead on the left is updated with the new e-mail addresses.

CRF Annual Meeting

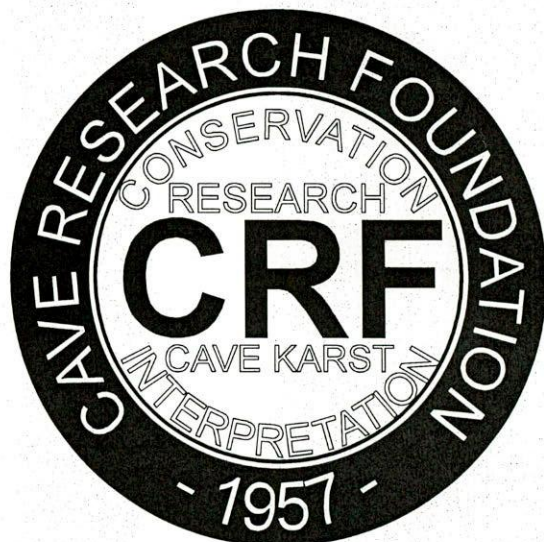
The 2011 annual meeting will be held at Cumberland Gap National Historic Park, November 18-20, 2011. This park is located where Kentucky, Tennessee and Virginia come together, and is the site of ongoing CRF work. Watch the CRF web site for further details.

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, immediately following the annual meeting. Contact the expedition leader, Dave West, d270@bellatlantic.net, for more info or to sign up.

Cover Photo

Rich Steiger at the entrance to Queen of Hearts Ice Cave in Modoc National Forest, California. Photo by Bill Broeckel.



From the President:

By: Scott House

I've spent a great deal of time underground lately, mostly cowering in the basement during the awful and tragic tornado season in the Midwest. But the good work of CRF goes forward

Most importantly, a new MOU with Lava Beds National Monument has been signed. This was the result of a lot of hard work by a bunch of folks. We got good support and suggestions from CRF'rs in California, particularly Peri and Bill Frantz, Bruce Rogers and Pet Helton, Bern Szukalski, John Tinsley, and Rich Steiger. The new MOU will continue the good work that CRF has done over the past 20 years. It will also clarify the roles that CRF and LBE will play. All projects will be done under the auspices of research permits, as is common with most of our operations. Getting all of this lined out and understood took some time, and misconceptions on both sides were worked through.

Within a couple of weeks of getting this completed, the first LBE CRF trip since late 2009 was taken, led by principal investigator Liz Wolff. This project is continuing the map of

the Hercules Leg and Juniper Caves system. Another trip is headed out there soon (this is early June), led by myself, to continue work on the remote Hardin Butte/Castle Flow area. And Bill and Peri Frantz will be continuing their long-term photo-monitoring work in the monument.

The NPS has several more projects, cartographic and monitoring in nature, which they would like CRF to take on. Opportunities abound for those interested. For the time being, John Tinsley will be the CRF point person for arranging these projects and associated field trips. Persons interested should contact John directly. Meanwhile, we are working toward a renewed cartographic program at Carlsbad Caverns NP.

Also be sure to watch the web site for further details on the CRF Annual Meeting this November. The meeting itself will be at Cumberland Gap NHP, followed by a week long expedition at Mammoth Cave NP.

Good things are happening all over...

Queen of Hearts Ice Cave, Modoc National Forest

By: Bill Broeckel

Here is a cave that probably would not have come to light if not for the Modoc National Forest CRF project. It occurs well down a big flow and is quite near a large stagnant lake of apparently cave-less Aa lava.

The entrance is small, and surrounded by brush thickets. Attempts to dead-reckon were often unsuccessful, and it was this one that finally forced me to learn how to use a GPS unit to relocate a cave. It is one of a series of caves now being subjected to a systematic descriptive effort. This sub-project remains incomplete, as some skinnier cavers will be needed to push nearby Romancing-the-Stone Cave.

Queen of Hearts Ice is presented here because it was kind of hinted, in a previous newsletter, that it might appear, and not much else is going on Modoc-wise. This cave does have some unique features, different from the usual lava tube. It might not even be a lava tube; as most of you probably know, not all lava caves are tubes. The depth (28.3 feet) is deeper than the surrounding shallow tubes (Romancing the Stone, Ledge, and Cupid).

Queen of Hearts sports a sprawling network of breakdown passages sloping down toward the periphery. Not only the floor, but also the walls and the ceiling present loose rock.

Several times during the survey trips, cavers accidentally brought rocks down on their heads. The amounts of material involved were not excessive, but these events were disconcerting just the same. We quickly learned to keep our heads low. The ceiling seemed to be a conglomerate of cinders and lava rock in a gravelly matrix.

My guess is that a dome collapse from down below barely breached the surface, resulting in this busted-up and unstable cave. It implies an even deeper void, maybe now completely blocked up with breakdown. The Queen remains very cold throughout the summer, maintaining year-round pools of ice at two different low-point locations. In 2009-2010, these ice pools were partially melted, and could provide a water source for wildlife during the warmest and driest part of the year. Many ice caves in the Lava Beds area have been losing ice rapidly, so it was exciting to find a previously uncharted ice cave during these times of changing climates. Seasonal ice also readily forms in this cave, including a coating of ice on the small entrance slide.

I generally run the book on Modoc cave survey trips, and am constantly struggling to elevate my quick-and-dirty methods up to the

CRF/LABE (Lava Beds) cartographic standards. For example, front and back instrument readings are required, to catch the magnetic anomalies and other errors in real time.

Sometimes I have problems comparing the results. Under the pressure of the moment, I find myself to be prone to mistakes in adding or subtracting 180. Still, I like receiving the numbers this way, as it decreases the tendency of the readers to fudge the readings. At Queen of Hearts, we were able to close loops within reasonable error. The cave really rambled around. We set 33 stations with an average shot length of 12.1 feet, similar to what you might see in a typical talus cave. Three trips were needed to finish the mapping. On the second trip, we encountered a single, solitary day-roosting bat, and immediately backed off. It

was seven months before we got back to finish the work. I hope you enjoy the cave map. It has not yet been otherwise presented, so remember, you saw it here first, in the *CRF Newsletter*.

Personnel: 1. On 9-5-09 Bill Broeckel, Mike Spiess, and Jim Wolff surveyed the ice pool areas (237.7 ft.)

2. On 10-10-09 Bill Broeckel and Rich Steiger surveyed some of the side passages until a bat was encountered (95 ft.)

3. On 5-25-10 Bill Broeckel did clean-up survey in the side passages (86.6 ft.).

Judy Broeckel stayed within voice contact on the surface. Total survey length 419.3 feet.

Bill Broeckel provided the map on page 5.

REGIONAL EXPEDITION REPORTS

CRF SEKI Memorial Day 2011 Expedition to Lilburn Cave

By: Bill Frantz

Summary:

The Memorial Day CRF expedition to Lilburn cave took place May 28-30, 2011. Of the ten people who signed up for the expedition, one canceled on Thursday, and one had to leave on Saturday after hiking into the canyon, owing to a family emergency, thus leaving us with 8 people. Six of the eight people were able to enter the cave on the Saturday trip, which cleared the trail to the Lilburn entrance, performed rescue pre-planning in the Corkscrew and OMG areas, performed lead checking in the VK passage, phone checking in the central cave, and finished up with restoration north of the Great White Pillar.

The rescue planning consisted of locating rig points and testing rigging for two raises in the Corkscrew and one at the OMG. All rigging was removed after the testing. Those checking leads flagged the route to a going lead at VK50. The phones at the Lilburn Entrance and South Seas Junction were checked and found to work.

The restoration consisted of raising the flagging marking the trail through a delicate area just north of the Great White Pillar to try to keep flagging tape mediated calcite deposits off the rock. Existing calcite deposits and all flagging tape remnants embedded in that calcite were removed.

On Sunday, four people entered the cave via the Meyer entrance. They tested the phone stations at Meyer Pit, East stream, Hex room, Lake Room Junction, Davis Exit, and R1. All phones checked were found to work. The team verified

that 4 of the 5 data cable pairs are working to R1. They also inspected the sediment samplers at the Upstream Rise and the Lake Room, and checked leads near River Pit Avenue finding that several leads are yet worth checking in greater detail. They also removed the remaining dive weights in the "Dive Shop" from the cave.

The surface crew chopped wood and cleared trail both Saturday and Sunday. On Monday the telephone instrument at the Lilburn Entrance phone station was replaced, and the sinking stream in Maple Canyon was checked as a possible dig site. The Maple Canyon site looks very promising.

Facility Status:

The cabin survived the winter with 150% of normal precipitation reasonably well. We are low on oak, with much of it simply inaccessible under the collapsed woodshed roof. The water system, solar system, radio, cave telephone, batteries and cabin are OK. The outhouse is starting to lean a bit and could use being shored up.

Supplies:

Fuel, paper towels, and toilet paper are OK. We need some surface work to shield the water line at several points.

Time Card:

Total volunteer hours: 12 + 36 + 32

Total person days: 25 (including the person with the family emergency)

Total party hours underground: 14

Total party hours above ground: 12

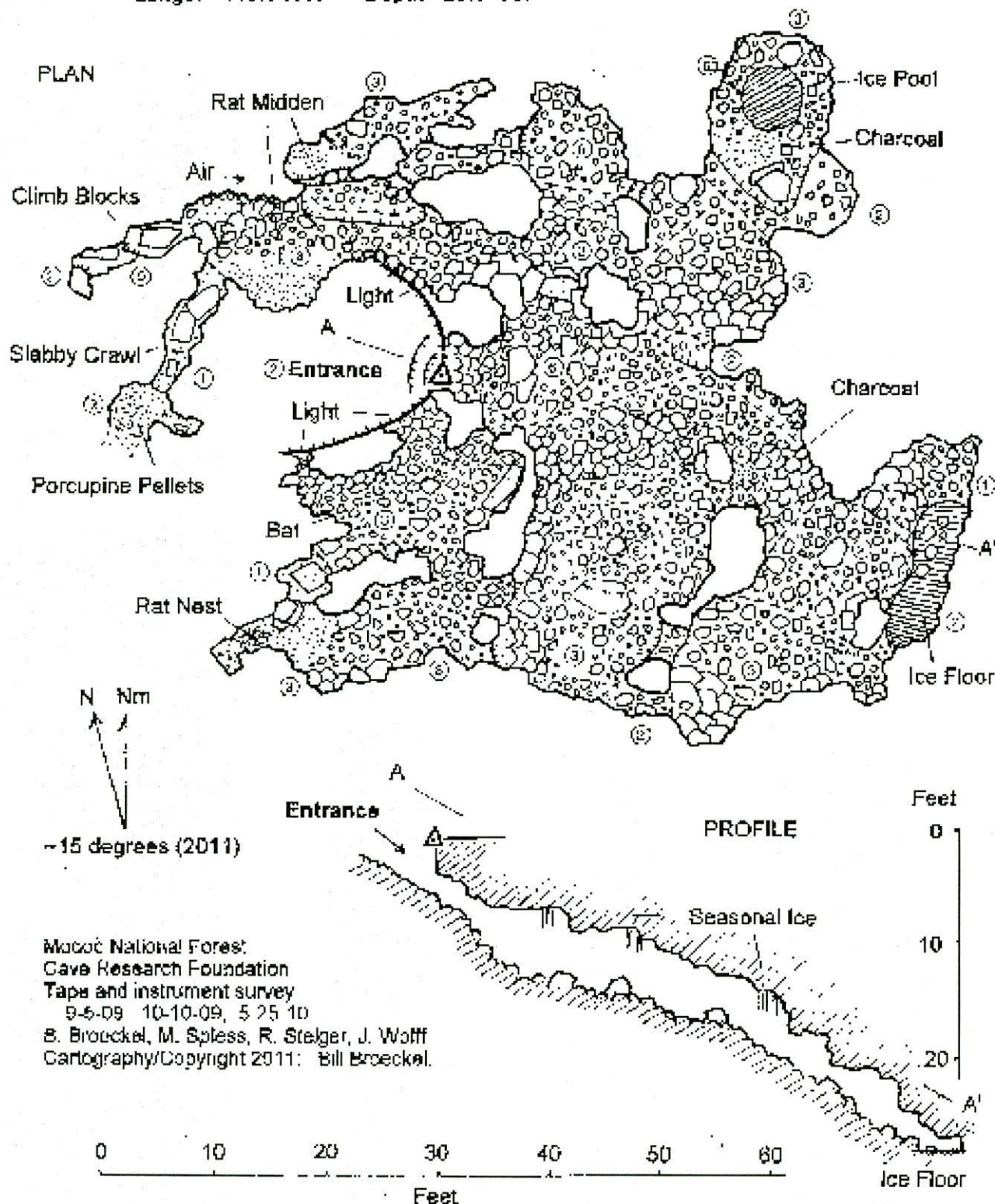
Total maintenance hours: 5.5 (trail clearing)

Queen of Hearts Ice Cave

Siskiyou County

California

Length 419.3 feet Depth 28.3 feet



Ozark Trips, November 2010 - February 2011

By: Mick Sutton

November 5-6: A backpack trip in the Irish Wilderness, (Mark Twain National Forest, Oregon County) by a group of caving women, most of them CRF affiliated, provided the opportunity to monitor some remote caves. Amy Crews, Amber Spohn and Mandy Harris monitored Gravel Cave; the same crew plus Ali Signorelli and Deb Thompson monitored Thorn and Porifera Caves.

On November 6, Jeffrey Bridgman, Kayla New and Sarah Holderfield returned to Copperhead Cave at Buffalo National River to map the passage discovered last time beyond a partial choke. One more trip will be needed to complete the survey. Also at BNR, Dewayne Agin, Mike Tennant, Natalia Kolk-Tennant and Joshua Shock began the survey of Novak Spring Cave.

November 7: Mike and Natalia mapped Fowler Cave (BNR), while Chad and Sarah Holderfield mapped Keeton Sink, a pit with little horizontal length. The pit could use some trash clean-up.

November 12: Eric Herzler and Jon Beard mapped Even Cave, recently discovered by Eric. The cave is on the MTNF Ava District, and is about 40 ft. long. Eric has completed the map.

November 21: Mike and Natalia Tennant began a survey of Devils Run Hollow Cave (MTNF, Carter County) and finished the main passage, with two side passages still to be mapped. They also searched for a reported possible pit entrance to Beaver House Cave nearby, but found nothing – this entrance may just be an unsubstantiated rumor.

November 25: Shawn Williams and Kayla New began the survey of Wild Ginger Cave, one of many new caves located recently in the Little Hurricane Creek drainage (MTNF, Oregon County). The survey consisted of a “belly crawl through scat-polluted stagnant pools” with more fun still to come.

November 26: Jim Cooley, Pic Walenta, BJ Seidel and Dave Seidel found a small new cave, Mosquito Cave in the Little Hurricane drainage.

November 27: A large crew consisting of Jim, Pic, BJ, Dave, Shawn, Max White, Elaine Gilleo and Larry Shaffield hiked above the Eleven Point River (MTNF, Oregon County) in an area with many potential new caves. One small cave – Boxwork Fragments – was mapped for 36 ft. and various leads were checked, some needing rappels. Two leads were deemed worthy of follow-up work. From their high perspective they

also used binoculars to search the opposite bluff for the missing Turner Mill Pit – they were unsuccessful in this but did spot two possible new caves.

November 28: The Oregon County extravaganza continued with Jim, Max, Elaine, Dave, and BJ continuing the survey of Canyon Cave – one of the more significant caves in the Little Hurricane drainage – for an additional 150 ft.

December 2: Scott and Patti House worked on cave files and trip reports at Buffalo National River.

December 4: Mick Sutton, Sue Hagan and Amy Crews completed (at last!) the survey of White Pine Cave (MTNF, Phelps County). The last and most distal section of the nasty little maze that parallels the main passage was completed for an additional 160 ft.

December 18-19: [report by Kayla New]. There was a survey trip to Buffalo National River. We had a total of 13 in attendance, with cavers representing Arkansas, Missouri, Texas, and Mexico. We had no shortage of sketchers. This allowed us to send out several teams over the course of the weekend.

On Saturday, two teams went to survey Novak Springs and completed an estimated 750 feet of passage. A team visited George Ridge and surveyed 3 small caves, none of which were more than 50 feet long, but all on the priority list. A team hiked to Clemmons Hollow in attempt to find Stout Pit, Bear Pit Cave, and Clemmons Pit, but discovered that the GPS coordinates on record were incorrect. No caves were found, but a good 7 hours was invested in hiking. Last, a team visited the ridge directly across from the Steel Creek turnoff, in search of a few of the area's smaller caves, including Milk Jug Cave and Hairpin Cavelet. Hairpin was found and surveyed - all 14 feet of 1 ft wide passage! Milk Jug was never found, but Trillium Pit was located and surveyed to an extent of about 70 feet.

On Sunday, the Fowler Cave survey was completed, as were a few other small caves on George Ridge by two teams. A team attempted to drive to the parking space at Novak with a Kia Soul - their secondary objectives were monitoring and surveying a few small caves in the Schermerhorn Hollow area - I am still awaiting the outcome of the endeavor. No one volunteered to give Clemmons Hollow another “go.”

December 19: Scott House and Mick Sutton

worked on integrating MTNF paper files into the cave database.

December 30: Kansas City area cavers spent two days in the Irish Wilderness. On the first day, Jim Cooley, Pic Walenta, Cyle Riggs, Craig Hines, Shelly Field, Colt Forney and Nicole Ridlen found a large shelter with archeological potential.

January 1-2, 2011: Jim, Pic, Cyle, Colt and Shelly tried to set a cave closed sign on the Upper Jacks Fork River (Ozark National Scenic Riverways) but suffered equipment failure. Also at ONSR, Craig, Nicole, Shawn Williams and Amy Crews mapped Bedrock Cave and found a new cave – Hughes Hollow Crawl #1. On January 2, Jim, Cyle, Craig, Colt and Amy signed and monitored Wind Cave, a large privately owned gray bat cave within ONSR.

January 2: Mick Sutton and Sue Hagan went to Secesh Cave (MTNF, Carter County) to assess bat use. There were earlier vague reports of bats clustering in winter in the entrance passage of this rather large cave. Since the cave has a quasi-pit entrance and was a potential cold trap, it was a possible Indiana bat site. We did find bat clusters, totaling more than 100 bats - all appeared to be little brown bats. We also recorded several other myotome bats, including one probable solitary Indiana, and numerous pipistrelles.

January 29: Bob Osburn, Aaron Addison, Mick Sutton, Sue Hagan and Julianne Ramsey (Choteau Grotto) spent a day in the Midco area of Carter County. Julianne had reported a probable new cave along Tucker Bluff on MTNF

land as well as a reported wet lead in nearby privately owned Midco Cave. The latter did not pan out, and the potential MTNF cave was found to be a known cave, already mapped. In searching for the lead, we did find a small new cave high above Tucker Bluff, and obtained improved locations for several other entrances. The crew finished off by mapping Indian Spring Cave – a privately owned 200 ft. long stream crawl.

February 20: Mick and Sue did the long hike to the so-called Marsh Creek caves, along the St. Francois River deep in the Rock Pile Mountain Wilderness (MTNF, Madison County). The main objective was to sort out the confusing collection of contradictory earlier reports on caves in this cluster. Bob Osburn had done a fairly recent surface survey tying most of the entrances, but which cave was which was still somewhat of a mystery. With the earlier reports and rough maps and Bob's surface survey in hand, we did manage to sort almost everything out and concluded that Marsh Creek Cave #1 of one report was the same as Marsh Creek #2 cave as mapped, with numerous similar problems. We decided the best solution was to give all 6 caves individual names and retire the Marsh Creek nomenclature, which in any case was inappropriate. The second longest cave had a cluster of at least 80 big brown bats (a rare but not unprecedented phenomenon), and earned the title Big Brown Bat Cave, while the longest cave reverted to its earlier name, Saltpeter Cave.

Bob Taylor, Roy Gold, Jon Beard and Jack Rosenkoetter continued the survey of Cobb Cave at Buffalo National River, completing the plan view of this enormous shelter cave.

Mammoth Cave: St. Patrick's Day Expedition, March 18-20, 2011

By: Dawn Ryan. John Lovaas and Dawn Ryan, Co-Leaders

The luck o' the Irish was finally with John and me this year. Every other year that we've been ELs there have been wind storms, sleet, snow, and rain. But this weekend the 25 cavers that attended this expedition enjoyed sun and warm temperatures. After a breakfast of omelets made by Rick Hoechstetter, six teams were sent out to the cave. Below is a compilation of trip reports drafted by the trip leaders.

Roger Brucker led Laura Lexander and Elizabeth Winkler in the Austin entrance to survey an extension of Pohl Avenue that has long been overlooked since the entrance was constructed. Its "lost" status was due to the talus piles from the entrance blocking a view from the end of Pohl Avenue. The survey netted 27.2 feet adding to the length of Mammoth Cave. The party left there and continued to Cow Falls in an

attempt to help connect via sound, with another party in nearby Donkey Cave. After finishing those efforts, Roger and his group packed up and left the cave around 5:30 p.m.

After many rushed emails with Jeff Bartlett, his objective was met by Rick Toomey, Bob Lodge, and Mary Schubert. Their instructions were to enter at the Historic entrance and proceed to Gratz Ave and locate the "big ass rock" where a previous "Z" survey was completed from 1993. Rick Toomey knows this area and was able to find the survey. His party was able to begin the resurvey of this area over some loose rocks and challenging pits. Along the way, they noted several cantaloupe-sized vugs with quartz crystals. Numerous healthy pipistrelles were also observed along the route.

Loaded down with five four-foot long steel ladder sections, an 80-foot rope, vertical gear, and packs, Rick Olson, Tom Brucker, Rick Hoechstetter, and Dawn Ryan entered through the Historic entrance, past the tourists off Ruins of Karnak into Gault's Way. From there it is a short jaunt out the K survey to the waterfall balconies of Colleen's Irish Croft. Here we assembled the 20 foot deer hunting ladder sections which fortunately just made it to the top of the lip. However the ladder bowed quite a bit but Rick made it to the top and rigged a rope so the rest of us could climb up through the waterfall to an upper level. The only way on after that was up another waterfall with a bad overhang. Tommy came up with the idea of pulling up the ladder and followed a joint filled with water. Rick (our leader) knew that the passage would peter out, so he left his pack behind. Well the passage just kept going as we surveyed until lunch. The rest of us gladly shared our food with Rick, it was hard to resist his puppy-dog eyes. The climbs were steep and difficult for a short person like me, so the guys allowed me to use them as human ladders and that helped immensely. We surveyed along a shelf where there was at least 10 feet below us and over 20 above us; some of the floor looked like suspended flowstone. We stopped where a waterfall cascaded into a 20 foot pit requiring a wide straddle to get across. We were all wet and cold so we decided to turn back.

Stan Sides led John Feil, Norman Warrell, and Bruce Hatcher into the Woodson-Adair entrance to inventory historic signatures in a part of the cave that was once used for commercial tours. Stan's crew also was carrying a 25 foot deer stand ladder, vertical gear, ropes, and packs. The passage is a very interesting historic tourist trail, with a variety of historic names all dated 1895 or 1896, except for one date from 1897. Norman knew the family significance of many of the names. There were no recognizable names from outside the Kentucky cave region, so it seems unlikely that the cave attracted many cave visitors from beyond the local area. They did not climb down the drop in Garvin Avenue that leads to the Colossal Dome crossing. The most interesting names were just beyond the junction of Garvin and Lees avenues. They found much trail development, bags of solidified cement; a glass bitters bottle, and one area of very nice speleothems. The most interesting find were large cedar tree trunks, way back in the cave from the entrance, being used as ladders. It must have taken a Herculean effort to take those large trees with trunk diameters up to a foot back so far in the cave. They guys left a clean rope attached to stainless

steel hardware at the far end of the second pit so another party might climb the rope and continue in the cave without using ladders. The names recorded in the cave will be compiled in a database.

Dick Market, Bill Stephens, Mick Sutton, Bill Koerschner, and Matt Mezdlyo entered the cave heavily loaded with ropes and climbing gear, where Mick led them through the confusing maze of canyons and climbs that take you from the main S-survey canyon up into the old J-survey. They reached the lip of the 50-foot pit in three hours and gratefully deposited their burdens. Dick made short work of the traverse and had a fixed piece of rope installed in about an hour. The rest of the guys crossed the 13 foot gap in good order and continued the K survey in to 12 by 10 foot walking passage. They reached a second dome pit coming out 65 feet above the deck. Dick was belayed across a ledge on the right and up into the continuation of the passage which ended in collapse (limestone and sandstone) on the far side. Bill Stephens joined Dick across the traverse and sketched the last station. Matt went across and pushed his way into continuing 15 by 3 foot passage at a slightly lower level and trending 80 degrees. He crossed over one pit but was stopped by a second pit that will require protection to pass. This pit can also be climbed down with relative ease. They spent the final hour cutting off the excess rope from the first traverse. The route is now completely protected for a follow-up trip to survey the continuing canyon. All that is needed to cross the pit is a seat sling, cows-tail, and jumar.

Dan Gregor, Tim Green, and Joyce Hoffmaster entered Donkey Cave to sketch a profile but were unable to locate the stations. So they proceeded down the main passage and checked an enticing hole along the right wall that goes down about 10 feet but is too tight. Near PK1, Joyce dropped in the triangle hole in the floor on rope. The hole was taped to 23 feet deep. There is bit more passage that parallels the canyon but becomes impassable. They then proceeded to the end of the F survey to check two crawl-ways. The one to the left has a bedrock floor and pinched out about 20 feet in. The other passage was very tight as well, and only 20 feet was gained. One other tight muddy crawl was surveyed to its termination. It ended in a room with the first large anastomoses in the ceiling and a far wall with ceiling of breakdown choke that included sandstone blocks and chunks of anastomoses. There is also a pit in the floor that looked to be around 12 feet deep with water falling. But they had no more ropes or cables ladders to safely descend. At that point they were all tired and wet, so they wrapped

things up and left the cave.

Everyone made it back safely and looking forward to a dinner of corned beef and cabbage and chocolate cake made with a Guinness beer anglaise cooked by John Lovaas.

John and I would like to thank everyone for their participation and good company during the expedition.

Pohl Avenue: Roger Brucker, Laura Lexander, Elizabeth Winkler; **Gratz Avenue:** Rick Toomey, Bob Lodge, Mary Schubert; **Colleen's Irish Croft:** Rick Olson, Tom Brucker, Dawn Ryan, Rick Hoechstetter; **Woodson-Adair:** Stan Sides, John Feil, Bruce Hatcher, Norman Warnell; **Salts Cave:** Bill Koerschner, Bill Stephens, Mick Sutton, Matt Mezydlo, Dick Market; **Donkey Cave:** Joyce Hoffmaster, Daniel Greger, Tim Green.

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

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, 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 Gonzalez, 831-776-5385, gonzal42@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.

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:

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pjdiblasi@gmail.com

THE CRF WEBSITE

www.cave-research.org

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

CAVE BOOKS Publications*Bold Identifies NEW Publications*

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