Interview with Stan Allison, October 13, 2003
Interview by Aaron Bird and transcribed by
Rachel Bosch.

Aaron Bird: Why don't we just go ahead and get started with the present? You work at Carlsbad Caverns National Park in the National Park Service as a Cave Resource Specialist, is that right? What does a cave resource specialist do?

Stan Allison: Well my real job description is called Cave Technician. Dale Pate is the Cave Specialist. There are four of us in the Cave Resource Office: Dale Pate, the cave specialist; Paul Burger, the Cave Hydrologist; then there's two cave technicians, Tom Bemis and myself. My responsibilities are managing most of the activities that take place in Lechuguilla Cave, including survey, research, and restoration, as well as rigging and management of trips that go into the cave. I also work with managing the survey data for Carlsbad Caverns. I also am involved with working with researchers in Carlsbad Caverns and other park caves. And I work with film crews. We get a lot of film crews at Carlsbad Caverns. It seems like a lot of people want to film in Carlsbad Caverns or Lechuquilla Cave, so I work with film crews a lot. And then I do "other duties as assigned," so there's a lot of other just miscellaneous job duties.

Aaron: How does one become a cave technician?

Stan: Well, the way I became a cave technician -everyone kind of takes a different path that's a cave manager now-but when I was in high school I came to the Guadalupes here on a caving trip on spring break and I met Ron Kerbo who was the cave specialist here at Carlsbad Caverns. and I remember thinking then when I was a high school senior that I wanted a job like his. When I went to college I found that they don't really offer cave management degrees, so I got a degree in park management and tries to get a job with the National Park Service and my senior year I got an internship up a Wind Cave National Park. I worked in interpretation for a summer as a seasonal and met the cave specialist at the time there, Jim Nepstad, and we got along great and I managed to get a cave management position created up at Wind Cave.

Aaron: So you went caving as far back as high school or before?



Stan Allison ascending a 100' deep, alpine pit in Alaska. Cave was explored and surveyed by Stan, Kevin Allred, and Stan's wife Gosia Allison-Kosior.

Photo by Gosia Allison-Kosior.

Stan: Yeah, I started caving in high school when I was a junior.

Aaron: And where was that?

Stan: I grew up in Colorado Springs, Colorado.

Aaron: Oh, O.K., so the Colorado Grotto?

Stan: In Colorado Springs it's actually the Southern Colorado Mountain Grotto. But I also did stuff with the Colorado Grotto out of Denver, and North Denver was the Front Range Grotto. So, I did things with all three of those grottos.

Aaron: I hear that they're pretty active grottos and pretty big, too.

Stan: Yeah, it's kind of strange that Colorado has some of the largest grottos in the U.S., but I think the Colorado Grotto has somewhere around 300 folks or so. It's a big grotto.

Aaron: So is Lechuguilla still being explored right now?

Stan: Yes, actually there's a group in the cave today. Exploration is still going on. It's been slowed down and a little bit more controlled than it was in the early days of exploration which I was also involved in, not as a park service employee, but just as a caver. But the exploration is still continuing. It's, you

know, a big cave. It's going to be a long time before it ends. The exploration's at a stage where it's more of a mature kind of cave. It's not like the early days where you could just pick a lead and it went forever and went to big boreholes. Now folks have to work harder to find things. I still think there's a lot of neat stuff to be found, but they're having to plan more and be more organized and persevere a little bit more.

Aaron: What is the length of it now?

Stan: It's 110.7 miles.

Aaron: Wow. That's pretty big.

Stan: Yeah, it's a big cave.

Aaron: That puts it up there, raked what 4

or 5 in the country?

Stan: It's number 5 in the world and in the

U.S. it's number 3.

Aaron: And it's deep, too, right?

Stan: Yeah, it's 489 meters deep, which is

1604 feet deep.

Aaron: I guess that that would put it as one of the deepest limestone caves in the United States?

Stan: Yeah, it's actually the deepest limestone cave in the U.S. But of course with all those lava tubes in Hawaii, it doesn't really stand a chance to compete with Kazamura at over 1km deep.

Aaron: So, Lechuguilla being so deep, does it have a lot of rope drops in it? Or is it a high-angle cave?

Stan: Yeah, it does have a lot of rope drops. I think it's actually a really fun cave for vertical in that there's a lot of drops, there's a lot of traverses, there's rebelays, but the neat thing about the cave is that it's not like the classic alpine cave or stream cave where you just go down and eventually hit a base level or something. You actually go down and then a lot of the exploration has been doing climbing leads to get to areas....for example, one of the major discoveries made in 1989 was the Aragonitemare and it's a 200 foot dome that was climbed from the bottom up and that led to the Far East

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section which is the current deep point and I would guesstimate there's probably 15 or more surveyed miles beyond that Aragonitemare Dome and probably more to be found. So, it's a fun cave in that you, when going to the deep point, which is 1604 feet deep, you actually go down to -1000' and then you climb back up to 750', and then you go all the way from 750' to 1604', which is kind of a see saw trip going out there.

Aaron: Wow, that's a lot of vertical. So, are the ropes left in the cave, or are they put there for each trip?

Stan: The cave is permanently rigged except for the entrance, and that just saves a lot of wear and tear on the cave and on the cavers. At this point, the Park Service owns and maintains all of the ropes.

Aaron: Do you have a replacement schedule for them?

Stan: I've worked at Carlsbad Caverns for the last five years, and one of the things I've been working on is a spreadsheet for all the ropes in the cave. With the help of folks who are exploring in the cave, I've been recording all the ropes lengths in the cave and the condition of all the ropes. A lot of them, we don't know exactly when they were first put in, so we're slowly replacing them and then keeping track of what condition they're in, what length they are, and what the rigging is like, and the schedule of replacement. I think last time I looked, there's over two miles of rope we documented that's rigged in the cave, but I wouldn't been surprised if there's another mile or so that we haven't gotten documented yet.

Aaron: Wow, that's a lot of rope right there. Now, Lech was - we call it Lech here in the east. What do you call it?

Stan: Lech

Aaron: So that's what everybody calls it. Well that makes sense. I've been to a few presentations that Pat Seiser has given. She's shown us lots of pictures of Lechuguilla, and I think maybe she called it that, too. Maybe that's where I picked it up.

Stan: Yeah, probably so.

Aaron: Lechuguilla was dug open. Were you involved in any of that initial work, or can

you tell me something about it?

Stan: I can tell you about it. I wasn't involved in it. The dig started, I think it was in 1985. A group of Colorado cavers got together and started digging in there. The known cave was just about a 60 foot entrance pit and about 500 feet of cave before the digging breakthrough. But there was a tremendous amount of wind sifting around all this breakdown and sediment and it was Memorial Day of 1986 that they made the breakthrough, and so since May of 1986, we've had 110.7 miles of cave surveyed, so it's been pretty rapid exploration.

Aaron: What about digging in the cave now? Are leads pushed by digging?

Stan: In Carlsbad Caverns National Park, the cave management plan requires that if anyone wants to do a dig that they have to put a request in to the Cave Specialist. But at this point within the cave, there has been very little cave found by digging. I can think of one area called Southern Climbs that was found by Donald Davis moving a large rock, but as far as digging goes, I'm trying to think of any major discoveries that have been made my digging. One of the things for folks who haven't been to Lechuguilla is that there's really hardly any sediment or soil in the cave or cobbles. It's all just really pretty much bedrock or formations. So it's not like normal caves where you've got sediment plugs or cobbles plugging things up. In Lechuguilla what happens sometimes is you have formation chokes, and I guess someone could ask for permission to remove formations, but they're probably not going to get it in the National Park.

Aaron: Are there other caves being explored in Carlsbad Caverns National Park?

Stan: Carlsbad Cavems is being surveyed right now. The resurvey's up to like 22 miles, and the resurvey effort has been going on for about 10 years. Of source, you know as folks are doing resurvey, they're finding some new areas. However, nothing really significant has been found in the last 10 years, maybe half a mile of virgin cave here or there. The last big find in Carlsbad Cavems was in the early 1990's with Chocolate High being discovered, which was about a 300 foot climb from the bottom up to an area with about 2 miles of cave.

Aaron: How many caves are in the Park?

Stan: Right now there are 106 known caves in the Park, and at Carlsbad Caverns, the way we qualify a cave is that it has to be at least 50 feet long, and the entrance has to be not as wide as the cave is long. That eliminates some shelters that are in the park. For example, if there's something that's 70 feet long, but the entrance is 100 feet wide, that doesn't qualify as a cave. The park policy on caves is that we only discuss 12 caves in the park Carlsbad Cavems, Lechuguilla Cave, Slaughter Canyon Cave, and Spider Cave, which are all open to the general public on tours ranging from the paved trails to spelunking type tours, along with 8 permit caves which are open to recreational caving on a permit basis.. For the remainder of the caves in the park, we have a policy where we don't talk about their location or what's contained in them, mainly to protect the caves, because there have been some problems in the Park with people blasting in a blowhole without permission

Aaron: Hmm, which one was that? Or is that one of the one's that you don't talk about?

Stan: Yeah, yeah [laughter from both]. But I can say that there was some blasting going on, and the FBI got involved in the investigation, but I can't really go into a lot of details on it. That's just kind of an example of why we don't talk about a lot of caves in the backcountry, just to protect them from folks who might not follow the Park rules and not want to work with the Park and just do things that aren't legal.

Aaron: So, would that be classified as vandalism or destruction of property?

Stan: You could probably get it for quite a few things. It'd be entering a cave without a permit, which is illegal in the National Park. It would be damaging the resource, which is also illegal. I'm not a law enforcement person, so I don't know what else it could be.

Aaron: Have you guys had vandalism problems anywhere else in the National Park?

Stan: In Carlsbad Cavems, there's a lot of historical vandalism. Amazingly enough on Continued on Page 6

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the tour routes, there's still a lot of vandalism going on today from visitors on the self-guided tours. In the past there were some studies being done on how many formations were being broken in the main cave and I'm thinking it was about 2,000 formations a year.

Aaron: Oh my goodness. Have any of these vandals been caught and prosecuted?

Stan: Yup, some of them have been caught and fined. A couple of years ago we caught two guys off the trail in Carlsbad Caverns who had some soda straws in their pockets. I think the fine might have totaled \$400 or \$500, pretty big slap on the hand but still not a huge slap.

There have been some things in the park found by digging, but not a lot of digging goes on in Carlsbad Caverns, in the park, mainly because of the delicate nature of the caves. Just being in a National Park, there are stricter rules than in other places.

Aaron: Let's change gears. How about rescues? I know there's the famous one that Emily Mobley was involved in a few years ago.

Stan: One that I think is pretty impressive is when Peter Jones did a self rescue from Lechuquilla Cave. I can't remember what year it was, but he was out in the Western Borehole, probably about 2 miles from the entrance and was just standing near the Leaning Tower of Lechuguilla. He lost his balance and flipped and broke his ankle. It was kind of a weird fluke thing. He was able to splint it with the help of his teammates and he crawled out the two miles. He ascended all the ropes just using one leg. It was kind of funny because he so much wanted to avoid making a big fuss, that when he got to the entrance, he sent some of the other cavers to our office. I didn't work at the park at that time, and so I heard this second hand from Dale. Dale said that they came and they were asking Dale if he had any crutches, but they didn't want to say there was a rescue going on because they didn't want to get everyone all worked up. Dale said, "Well, we don't have any crutches, but why do you need crutches?" Peter had self rescued, and it was pretty neat. To be fair to Emily, she had a plateau fracture, which there's no way she could have self rescued. She had a real painful break. I'm

sure it was painful for Peter, too, but he had a broken ankle, and he could splint that and still use the knee on his broken ankle leg.

Aaron: How about in other caves? Have there been any rescues?

Stan: Historically, I think it was 1918 or so, there was a guano miner that was leading trip into Ogle Cave on his day off. I think it was a Sunday and he was leading some tourists. Ogle has a 180 foot pit and the guano miners had ladders into the pit. A little over 100 feet down there's a ledge and he was below the ledge on that second set of ladders when some rocks got knocked down, and he ducked behind the ladder. He thought the rocks were clear and he looked back up and a rock hit him on the head and knocked him about 50 feet down to the floor. He lived part way through the night and then died. The next day Jim White, of Carlsbad Caverns exploration fame, helped with the body recovery. Other people have died in the caves in the park, but that's the only death that I consider a caving death in the park, because the other accidents were like a blasting accident when they were building the trails in Carlsbad Caverns, or tourists dying of heart attacks.

Aaron: Being in the National Park, I'm sure you guys have significant rescue training, in case something were to happen, right?

Stan: Yup, yup. In fact, every year we do a week long cave rescue training. We've got four people in our office that are cave rescue trained, but that's not really enough to do a big rescue. There's other staff in the park that are interested in caving, but right now we're kind of at a low point. There's not a lot of other staff that are involved in caving, so anything that would happen, like in Lechuguilla, we would definitely have to call out for outside resources.

Aaron: What is the number of trained rescuers in your part of the country?

Stan: There are some folks in Albuquerque. If I had to put a number on it, probably in New Mexico we might be able to come up with 40 or 50 folks, not all of whom could go very far, maybe not all the way to the end of Lechuguilla. So in reality if there was a rescue in Lechuguilla, we'd be calling folks from all over the U.S. It'd be a big deal, and we've been fortunate so far that we haven't had a big rescue recently.

Aaron: Maybe people are being more careful, and the training that they've had have had an impact on their caving practices?

Stan: Yeah, and I think some of it's probably just luck, but I first started going in the cave in January of 1988, and back in those days expeditions in Lechuguilla were as large as 70 people. Currently the maximum size for an expedition is twelve people. And as you can image with 70 people, there's going to be some folks that slip through the cracks that really shouldn't have been in the cave. There's even a story of a group that went into the cave. I wasn't involved in this. but they went in and didn't even have their climbing systems all tied up or anything. They had all the pieces, but they didn't have them assembled, and so someone had to help them assemble their climbing systems before they could get out of the cave. So, actually we're really fortunate there weren't more accidents in those early days.

Aaron: So, do you guys do an orientation or safety training or anything like that before people go on expeditions into Lechuguilla.

Stan: Yes, we usually do about an hour long orientation. Basically what we do is we go over the guideline training for Lechuguilla Cave where participants sign an agreement they will abide by those guidelines. The orientation is just a good way for us to communicate with cavers [about] what the park expects of them and also to get feedback from the cavers about what works, what's not working right and just to make sure we have good communication between the cavers and the Park.

Aaron: O.K., sounds good. Well, that's a lot about Carlsbad Caverns National Park, but you've caved elsewhere, right? I think you had mentioned Wind Cave?

Stan: I work here at Carlsbad Caverns and I was fortunate to participate in some really neat exploration in Lechuguilla Cave when I first started caving here in the late 80's, but to tell you the truth my favorite caving areas are elsewhere, which may sound crazy to people who are drooling to go into Lechuguilla Cave, but on my own time, I actually prefer to be in caves that are more robust and less delicate and more wet and

vertical.

Aaron: Like Eastern caves for example.

Stan: Yup, I like a lot of the Eastern caves. I like going down to Mexico in those caves. And you just brought up Wind and Jewel. Wind and Jewel are still pretty weird compared to most caves, because they're dry maze caves, but they're not nearly so delicate as Lechuguilla Cave. You were asking about digging, and a lot more digging has gone on in Wind Cave and Jewel Cave. They both have significantly more sediment than Lechuguilla Cave. In fact, I think two of my favorite discoveries happened in the fall of 1991.

In Wind Cave, Paul Burger and some other folks and I had been spending the summer looking at the end of the cave which is about two miles from the entrance in an area called Silent Expressway trying to figure out where the air was going out there. When we started there in '91, folks really hadn't been doing that much work out there for the last five or six years, and we were real thorough about checking leads from the very end, trying to figure out where the air was going. We found a hole that was blowing, and I had to chip some small, cemented rocks out of the way of this blowing hole. That day we didn't find much more than 500 feet, but anyway eventually it led to a significant area called Southern Comfort where there's about 7 miles of cave now.

Aaron: Wow, that's a pretty significant find.

Stan: Yeah, and that's the most remote part of Wind Cave. There are still leads to be explored out there, and now that I'm down here there are other people that are doing the exploration out there now, but the area's still going.

Aaron: So you were digging in Wind Cave National Park?

Stan: Yeah, and it's the same at Wind - when we made that discovery, the digging policy at that point was to use good judgment. Now the policy is you need permission from the Park, but it's a lot easier to get permission there because the nature of the cave in a lot of areas isn't nearly so delicate as Lechuguilla Cave.

It was in September that we made the Wind Cave breakthrough, but in November, we

were on a work trip in Jewel Cave, which was 85 miles long at the time. I usually love caving, but that week I had done about four trips for some hydrology studies we were doing, and I was actually getting kind of burned out. We went out to the far eastern end of Jewel Cave where there's a lot of air flow to get some manganese samples for the park. While we were out there we decided to go look at a lead that Mike Wiles had remembered.

It was Mike Wiles, Harry Burgess, and I. We looked at that lead that was blowing a lot of air and I started digging on it for a while and then Mike dug on it for a while and then I dug on it for a while and then suddenly I broke through. We went up a 40 foot dimb and the next thing we knew, we were in like a 15-20 foot diameter passage that looked down a 30 foot drop into passage that was like 50-60 feet high and 20-30 feet wide, and we could feel the air in our face. So we climbed down that and ended up finding what at that time was the largest room in Jewel Cave. We scooped, I think, half a mile of cave that day. We found the biggest room in Jewel Cave at that time. Cloud Nine, which is like 500 feet long and probably 150 feet wide, and ended up getting lost on the way coming out, going down the wrong borehole, and ran out of water, so we had to pee in our carbide lamps. Anyway, it was quite a trip.

Jewel Cave is 129 miles now, and pretty much all the additional mileage has been found beyond that dig that we later named the stopper. That's almost 45 miles of cave out there, and it's still going really good out there. It's just that we're getting a long ways away from the entrance where we're exploring.

Aaron: Are camps required there?

Stan: Yeah, we started camping in 1997, and we're just doing four day camps out there. We're actually doing something that I don't know if it's being done anywhere else, where we're hauling everything out of the cave, including our urine and feces. Like I said Wind and Jewel aren't quite so delicate as Lechuguilla, but they're still, compared to most caves, delicate dry caves. So we're trying to minimize our impact on the cave. When we're in there for four days, we're usually hauling out like a gallon to a gallon and a half of pee on the way out, so that's one of the main reasons we limit to four day

trips. It's about four miles to camp. We usually take anywhere from six to eight hours to get to camp on the first day. Then we usually survey something near camp, and the next two days we go out from camp and survey. Then on the fourth day we leave the cave. If we have one team, we usually come out with a mile, maybe a little less, and if we have two teams we usually come out with a couple of miles.

Aaron: Wow. That's pretty good rewards.

Stan: Yeah, that cave's amazing. It's actually probably one of my favorite places to be as far as exploration. Last January when we were there we surveyed about a mile at the end of the cave and still had really strong air in our faces. This is over six miles from the elevator entrance that we use, and if we'd come in the natural entrance, it would be closer to seven and a half miles. So, anyway, even from the elevator, it's a long ways out.

Aaron: So how much more potential is there? Is it miles and miles?

Stan: Yeah, it's pretty wild because Jewel is already big at 129 miles, but the air flow studies that Herb and Jan Conn did in the sixties showed that just a small percentage of the cave was known, so the cave could easily be over 1000 miles long. Whether or not we can go everywhere the air goes, who knows. But I think that's the cave that someday I'm going to be in a passage and the passage is still going and I'm going to be thinking, "This is the end. This is as far as I can go." I think it would be pretty neat to be in a cave and have that experience.

Aaron: Well, let's see. Those are Western caves. You have caved in the east, right?

Stan: Yeah, um, in fact for the last four years, I've been working with the group in the Omega System in Virginia. I started going out there in 2000. Mike Ficco and Ben Schwartz are the main leaders of that group, and I've been assisting them on week-long camps. Ben Schwartz's wife, Cori Schwartz used to work at Jewel Cave National Monument, and did a lot of exploration in Jewel Cave in that stuff beyond the stopper I was talking about. She was real active there and did a lot of exploration there, so when she moved out to Virginia to

marry Ben, I managed to meet Ben, and that's kind of how we hooked up.

Aaron: That cave's a pretty big cave. Weren't you guys in there a couple months ago on a camp trip?

Stan: We were in there in July. I think it's about 18 ½ miles long now or something like that. It's a big cave, and I think it's the deepest in the east. I think it's 1270 feet deep, something like that. And it's pretty remote. It's a big cave in that you can get a long ways away from an entrance. I don't know the exact statistics on it, but we're doing cave camps in the cave, and we're staying in for about seven days, and on most trips we've been coming out with close to two miles on a week-long camp.

Aaron: What kind of passages do you see in there, in your surveyed sections?

Stan: It's funny because I haven't been in any other Virginia caves. So, to compare it to other Virginia caves, I really couldn't do that, but it doesn't have really huge diameter trunk passages, like I've read about in Friar's Hole. It has a long stream passage. I think one of the stream passages is close to five miles long or something like that. But they're not so big. In places, there are tall canyons, but they're not really boreholes, and it's a really complex cave because there's a lot of what we call meander mazes where the stream has meandered back and forth at different levels, and so there's these braided mazes. It's actually pretty complicated. There are streams in the cave. They're not really really large streams, but they are extremely long, and all in all the cave's pretty linear. It covers a long distance.

Another interesting aspect of the cave is that you have to be really careful with the rock. There are numerous places where slabs of the walls and or ceiling have fallen off at the slight touch of a caver. When I first started caving there, I thought that Mike and Ben were overcautious about the danger of the rock. That was before I saw a perfectly solid bedrock ledge that Mike was standing on drop out from under him 20 feet to the floor. Mike made an instinctive cat-like jump to the opposite ledge and avoided a near accident. Another place in the cave there is a large breakdown block that shifted and nearly squashed Tommy Shifflett called the Tommy Knocker.

It's a neat cave. I'm fortunate that those guys invited me to help with it. It's definitely been one of the highlights of my exploration in the last four years, helping those guys out with that project.

Aaron: Did you cave with Dick Graham there?

Stan: Yes, I did. I was there, not this summer, but the prior summer. I was on a camp trip and Dick and some others did a day trip in the cave. I was really disappointed to hear about his accident, just a few weeks ago. I didn't know Dick very well. We weren't actually on the same cave team, but we were in the cave at the same time. I talked to him and got to know him a little bit, and he seemed like a really nice guy. I was really bummed to hear about the accident he had.

Aaron: Yeah, the couple of times I met him, I found him to be a really pleasant and nice guy, too.

Stan: Anytime an accident like that happens, the main positive thing I think that can come out of it is to try to learn what happened, so other people can try to avoid having the same thing happen to them. So I'll be really curious to hear what they think might have caused it. They might not ever figure out what it was, but he seemed like a very competent caver to me. It's always more bothersome, I think, when competent cavers have serious accidents or fatalities because if it's an incompetent caver you can always say, "Oh, they didn't know what they were doing," but if it's someone with as much experience as Dick, and he was a good caver, it makes you kind of think about what you're doing, too.

Aaron: It definitely makes us all think about what we're doing. It was a very tragic accident....

Aaron: So, have you caved in other areas in the east?

Stan: I went out to an NCRC in West Virginia in 2000, and just went to some of the local caves there on that trip. I've done a little bit of sport caving in Tennessee. I guess my only significant exploration, caving out east has been in Omega.

Aaron: How about international?

Stan: On my first trip to Mexico I did a tourist trip to Purificación in 1989. In '92 and '93 I went down to Cheve. That was during the time period when the deep point had already been found, and the majority of the cave had already been found, but we were working on digging through the breakdown. So we were just camping down at the bottom of the cave and hammering against the breakdown for a week. But Cheve's an incredible cave, especially the section right before the sump. It's called Wet Dreams, and it's this beautiful white marble passage with all these waterfalls and plunge pools and short drops and just really gorgeous cave.

Then in '93, after the Cheve trip, I went to the Cerro Rabon area, which is a joint Swiss-American area where the main cave that is Kijahe Xontjoa That cave right now is about 31km long. It's 1223m deep, and that was my first opportunity to cave with the Swiss cavers. I really learned a lot from those folks, because most of their caves in Switzerland are deep and vertical and cold. They really have their act together as far as exploring vertical caves, especially since in Switzerland it's so cold, you can't mess around because you mess around and get cold, you get too cold and you die. So I really learned a lot from those folks about technique. That about the time I switched to the frog system. People laugh at me now because not a lot of U.S. cavers do this, but I wear the rubber boots.

Aaron: Yeah, I do too.

Stan: I think they're great.

Aaron: Yeah, I like them. It's easy to put them on and take them off.

Stan: And I get mine for like \$12 at Home Depot.

Aaron: Sometimes you can find them with the steel toes in them and they're even toucher

Stan: For some reason, I haven't been real crazy about the steel-toed ones because they add a little bit more weight, but I really like the way you can feel the rock through them. Leather boots when you're in a muddy cave, the laces get just all messed up. The boots get messed up and to get a good pair of leather boots you gotta pay 60-

70 bucks or more.

Aaron: Yeah, that's true.

Stan: I'm kind of a missionary for rubber boots. Anyway I learned a lot from those folks about rigging, and they taught me how to rig rebelays and how to do redirects and how to rig European alpine style, and they just were a lot of fun. So I really enjoyed the caving I've done there. I went back to Cerro Rabon in '98 and then in 2000, and we haven't been back for awhile but we're talking about maybe going this coming spring.

There have been some problems with some of the locals. One of the families that we were working with there got crossed by some of the other Mazatec Indians in the area and one guy in his family got hacked up with a machete by some other Mazatec Indians. So, it's kind of tense there right now. We might go there this spring and maybe not even do any caving, just try and reestablish relationships and try to see if things are good for us to go back there again.

In 2000, we left a cave going - we were down 500m - and it had air and water and getting bigger all the time, so that was a good lead, and we also did a trip to the deep point of the main cave, Kijahe Xontjoa and there's a borehole down there called the Crocodile Gallery that ended in breakdown that blew air, and we got into a maze section just before that breakdown where we managed to get into some crawlways that had enough air that I had to be careful so it wouldn't blow out my ceiling burner - impressive airflow. It was our last day in camp. At the end of the day we got just about even with the end of the breakdown, probably a little bit past it, and things started opening up, but we had to head out, so that's a really good lead we haven't been back to.

The unfortunate thing is on the way out of that trip I fell 5m out near the end of the cave, which shook me up. I couldn't use my right arm very much for the rest of the trip, and it also made me very aware of my mortality, thinking of getting hurt that far back in that cave. And then, shortly after I took my fall, Karlin Myers had a carbide explosion hit his hand. And then when we were coming out of the cave, we got to 600m below the entrance and the cave started flooding. It was one of those trips that if it had gotten

any more fun, I think it would have been our last trip. It was pretty intense. I've never been in a cave when it's been flooding like that before, and it's amazing how much force the water has. Fortunately we were able to get out, but it was pretty exciting.

Aaron: How long were you in the cave?

Stan: That trip I think was like a five or six day camp. We were at the farthest camp in the cave. There's one camp that's just about 1000m down, and we were in the far camp, which actually takes about twelve hours to get to from the entrance. You get down to 1000m and you actually travel horizontally for a long ways. That cave's really neat because it's so vertical. It's even more vertical than Cheve in the entrance area. You just drop down all these pits. In fact the third pit in the cave is a 200m free pit. So you can get down to 500m in just a few hours of rappelling, and then it goes straight down to 1000m. At 1000m it hits this base level, which is pretty horizontal, so then there are all these horizontal passages. You travel through those for a ways and then it drops down again to the 1200m level, which is where the second camp was.

When we got to the second camp, we found that in the intervening years, the camp had flooded. This was 2000 and the prior trip to that area was in 1995. There had been flooding and so the food that we had expected to be there, the sleeping bags that we had expected to be there, everything had flooded off, except for the thermarests had stuck to the ceiling there. So we had thermarests and no stove and no food. It was kind of a cold, miserable night.

The next day we went back to the first camp and got some food that was stashed there and sleeping bags and went back to the far camp, and did all this exploration, and then had all those problems I told you about. I think it was one of the toughest cave trips I've ever been on, between not having all the gear we thought we had and my taking the fall and Karlin having an explosion and then the cave flooding on the way out. The cave flooding started on the way into the cave.

The rope we were rappelling on was pretty old - it was from an expedition in the 1980's to Papua New Guinea, and I was the third person down the rope and the sheath split before I got down it. I guess the last person

down, the sheath just like split on them. The core was exposed, so I tied a butterfly knot in it. And then below that there was a pit where there was already a bad spot so we'd put a butterfly in it.

Well, on the way out of the cave when the flooding hit us, Karlin was up changing, adding a new rope to the one that had the butterfly on it, the lower one, and there were two of us below the drop when it started flooding. There was a lot of water coming down the drop. There were two ropes hanging down and I knew one had a knot in it and one didn't, and I knew that if I got on the one with the knot that there would be enough water coming down that there would be no way I would be able to pass the knot, and I probably wouldn't be able to do a changeover either. So it was kinda one of those choices where it felt like a life or death choice, but fortunately I got the right rope. I went up first and then the next guy came up after me, and managed to get up through the waterfall.

Then on the next rope, which I had tied the butterfly in because the sheath split on the way in, there was a waterfall coming down that, and we couldn't get on that rope. Karlin led up a wall on the opposite side of the shaft - it was like a 100ft pit. He free-climbed and tailed a rope up behind him up one side of the shaft. Then we got up to a point where I could do a tension traverse over to the top of the pit, so we managed to just get out that way. It was exciting.

Aaron: Wow. I would say so. So, you guys were there in the dry season and there was just a freak storm or something, right?

Stan: Yeah, there was a freak storm. We were there in March, and there was also an earthquake on the surface. My wife, Gosia, was on the surface, and said she felt an earthquake. The flooding has actually happened before in March in that cave, where they've actually been trapped at the first camp at 1000m, and they're safe there. But the problem is the shaft that we were at, 600m to 1000m, it's kind of strange, this cave, we might be missing something because the shafts are actually smaller from 600 to 1000 than they are in the higher part of the cave. They also take a lot of water, so you're probably alright in that cave if you're above the 600m level when a flood hits, and

you're alright if you're below it, but if you're in that 600 to 1000m section and a flood hits, then you probably wouldn't survive. So, you don't want to dilly dally in that section very much.

Aaron: I'd say not. Wow. Well, that's a pretty exciting expedition there.

Stan: Yeah, that was exciting. It was actually too exciting. It took awhile for my arm to heal. I didn't cave anymore on that trip because my arm was too banged up.

Aaron: Was it broken?

Stan: It wasn't broken or anything. I'm not sure what I did to it. I couldn't pull with it. I could use it to stabilize myself if I held it in one position, but I couldn't pull with it. That made coming out of the cave more interesting, too.

Aaron: Have you been on other international expeditions?

Stan: Yeah, in 1987, I went on one of the Borneo trips into Gunung Buda and spent five weeks out there and surveyed a bunch of cave. Borneo is incredible. And then, in 1999, my wife, Gosia and I, we weren't married at the time, but we went on a trip that Tom Miller led and Pete Shifflet co-led to Belize to the Chiquibul System to help make a diving connection between two of the main river segments and helped bring the cave over 40km, and we surveyed a bunch of new stuff from a deep camp in that cave, and also found a significant extension to another cave. I think we surveyed about 9km on that expedition. That was pretty neat because the British were helping us out with helicopters to fly the dive gear into that cave because it's about an 11km hike into that cave in a jungle area, and so the British helicopters were flying in dive gear.

Aaron: I've heard that the British like to use helicopters in their expeditions.

Stan: Yeah, it was pretty fun. I could see why they might like that. In this case, it was the British military, which I guess is still in Belize helping patrol the border and that's where they do some of their maneuvers - jungle training, even though Belize is no longer a British colony. That was pretty neat.

Aaron: So, did you help haul gear or are

you also a cave diver?

Stan: Oh, no, I'm not a cave diver. I was helping haul gear and doing dry caving. Of course dry caving in that cave is very wet, but no diving. It's always intrigued me but I've always thought that if I was going to do that, it sounds like something you don't dabble in. It sounds like something you need to take very seriously. Living where I have lived in Colorado and South Dakota and New Mexico, it's not really good areas to get a lot of open water diving experience, never mind doing lots of cave diving. So, I've never taken that up. What about you?

Aaron: Um, no. I don't think that Rachel would let me at this point.

Stan: Yeah, I can't say Gosia would be really happy if I came home one day and said I've decided I'm going to be a cave diver.

Aaron: In our email correspondence, you mentioned you are a wildfire fighter also. Have you been involved in any interesting wildfires?

Stan: Yeah, I just got back from Montana. It was actually pretty fun because Jim Goodbar, who's the cave specialist for the BLM here in Carlsbad, also went on the fire engine that I was on, and we were working in an area west of Glacier National Park. We actually had limestone and springs and caves. We were having trouble keeping on task with the fire stuff. We kept on wanting to go check out the caves.

Aaron: So did you have to get the regular fire or wildfire training?

Stan: Yeah, I've taken - I can't remember that class - some basic wild land firefighting classes. I'm not like an incident commander on a fire or anything. I'm pretty much a grunt. But it's fun work. You get a chance to see some neat country. Of course, probably the biggest motivator is that it pays extremely well.

Aaron: Uh, O.K. That's good. Well, it is dangerous work, right?

Stan: Yeah, I mean, probably one of the bigger dangers is that anytime there's a wild-fire around, there's a lot of trees falling after the fire moves through, and of course burning is always a problem. I think the fire

agencies in the last twenty years have really made a big effort to try to improve their safety record. Like any caving we ever do in the Park, we say safety first, and it's the same with fire. Statistically it might not even be as dangerous as driving a car. Caving's definitely not as statistically dangerous as driving a car. either.

Aaron: But the kind of people who would fight fires limits that, I suppose. I don't think that just anyone off the street would go and fight a fire.

Stan: And then you have to have the proper equipment. All of the clothing we wear is fire resistant, and leather boots. We don't wear anything synthetic, because you know, synthetics don't respond well to fire.

Aaron: So what percentage of your job does that take up each year?

Stan: Not very much. For a few years, I wasn't doing very much. Last year, I did a couple of weeks. This year I did a couple weeks, which is about the right level for meto do it for two weeks - because even though it's enjoyable, I really like what I do on my regular job. I get to draw maps and enter survey data and work with cavers and do cave trips. I like my job a lot.

Aaron: Yeah, that's cool. So what's your job going to entail tomorrow when you go to work?

Stan: Well, on Wednesday, I'll be setting up a spreadsheet for the leads in Lechuquilla Cave. We've had people filling out lead lists the last few years, but I'm going to start trying to put those leads into a spreadsheet that we can use to track them with and then also track which ones have been checked and hopefully we could be a little bit more organized about checking leads, because like I said Lechuquilla is in a mature stage of exploration where there's still lots to be found, but you have to have a plan and you have to know where leads are because you're not just going to stumble into something. So, that's what I'll be doing on Wednesday.

Aaron: Wow. That sounds pretty cool. So what's the future for Lechuguilla?

Stan: One thing that the park's been emphasizing more, even more than exploration recently, is research, because there's

a lot of research going on in the cave, biological research, and we're definitely wanted to encourage that research and learn as much about that aspect of the cave as we can.

I think exploration and survey is going to continue. In fact, there have been some pretty neat discoveries made in the last few years, probably an area a little over a mile long that has extended the cave boundary to the west a little bit, was found called the Zanzibar and Promised Land, and one of the things we were trying to do with that area is explore it a little bit more slowly and carefully than maybe things were explored in the past. Hopefully we'll be a little bit more careful and do a better job at keeping the cave in as pristine a state as possible. It's a lot of fun to explore in Lechuquilla Cave, but like I said one of the reasons why I prefer to explore in other caves is that it actually goes kind of slow when you're tiptoeing around aragonite bushes and things like that. It's not like in a stream cave where if you get into good going passage you just crank out the tape and keep going. Sometimes it goes extremely slow because of the delicate nature of the cave, and also sometimes the cave is fairly mazy, too, so it takes a little to figure out where things are going and such.

Aaron: And what's in the future of caving for you?

Stan: I really like working in the Cerro Rabon area. That's actually one of my favorite areas. I hope we can work with the locals, and hopefully things will cool down there so we can continue to work there because I think that area has potential.

In Kijahe Xontjoa] there's actually two deep routes, one goes to 1200m deep and the other goes to almost 1000 - it's like 980. It doesn't quite get to 1000m. But even though we found those two deep routes and probably four or five 200m+ pits in the area, I think we've just kind of scratched the surface. Mike Frazier's been doing some work on the other side and we found a nice cave, this spring that went down to 200 or 300m and had a large room. I think there's a lot more to be found in that area.

I also really want to stay active up at Jewel Cave. Even though I'm not up in the Black Hills anymore, I still try to get up there at least once a year and participate in the cave camps there, because like I said earlier, I think that cave's going to go longer than I can. I really enjoy participating in the Omega trips, too, so I'm hoping to continue that. When I get involved in something, I kind of like to stick with it. I like to get involved in projects that I can continue with. I guess everyone likes to get involved in caves that keep going. But, I like working on projects for long term.

I didn't mention yet - we went to India last December, my wife and I and some other folks to Meghalaya. It was the first American expedition to Meghalaya, and we saw some nice caves, met some really nice people. We decided we really like India a lot, so I definitely really want to go back to India, and my wife wants to go back, too. Maybe next year or the year after.

I started drafting cave maps digitally, recently, using Canvas and that's really been a lot of fun. It's made cave cartography a lot more fun for me. Before I used to always dread getting out the pen and ink, because any time you made a mistake it was a hassle to fix, or if you had to add a new section on, trying to erase was a pain. But with digital mapping, I'm like a big kid with an Etcha-Sketch now. So, I want to continue doing that

I really enjoy caving. Caving's my job, but it's also my passion on my own time and I've always said that I don't want to let the job take my passion away from me. I've seen some cave managers who've kind of got burned out on cave exploration or caving on their own time. That's probably one of my biggest goals is to maintain my enthusiasm and not get burnt out by some of the negative things I have to deal with in my job. My job is fun, but there are a lot of times when it's not fun.

Aaron: Well, everyone has some parts of their job that aren't fun. And we hope that we can enjoy most of the job.

Well, I think that's about all of the questions that I have. That fills up my whole sheet of notes that I had looked into. If there's anything else you wanted to add, you certainly should feel free.

Stan: Let me see. One of the things I think that's helped with my caving a lot is being in good physical shape. I'm a runner - not so competitive anymore, but when I was in

high school I won the 2 mile state track meet in Colorado, and when I was in college I was a track and cross country athlete. Even though I don't race competitively anymore, I'm a big believer in training for caving. I think that helps out a lot, being in good physical shape. I still get tired and beat [on the long trips], but at least I'm not as tired as I would be if I was out of shape.

Aaron: So what do you do to train?

Stan: I mainly run now. For a few years, I raced mountain bikes. In fact it got to the point where I was trying to decide if I wanted to continue as a Park Service employee, or quit my job and move up to the next level, which would have been the pro ranks. But I don't mountain bike much anymore. I mainly just run. I'm kind of an old has been, and I don't compete like I used to. When I was in college, I was running like 80 miles a week, or something like that. Now I run maybe 20 miles a week.

Aaron: Do you find that that keeps you in good enough shape to do long trips?

Stan: I get a fair chance to do a lot of caving with my job and such. But, I think even if I wasn't doing that, just by maintaining running I think that would keep me fit for expeditions.

Aaron: I agree that training is really important for good caving.

Stan: I know that to cavers in general, training sounds Draconian, but I love to run anyway, so it's fun. It's good for my head and it's good for my body.

Aaron: If people train hard in their non-caving time, they have a pretty good chance of getting on expeditions to other places.

Stan: That's one of the things we really emphasize for folks going into Lechuguilla Cave is that we want people to be physically ready for the cave. If that means you need to do a training program, well then that's great. I guess the main reason I mention that here at the end is just that it's been a big part of my life-running and training.

Aaron: Well, great. I appreciate you talking with me about caving and firefighting and your job and all the stuff that you do. Thanks!

Stan: Thank you. Bye.

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