



THE SPELEOGRAPH

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Oregon Grotto general **MEETINGS** are held on the 3rd Friday of every month, at 7:30 P.M., and until further notice, will be held at the Southwest Washington Research Unit, 1918 N.E. 78th St., Vancouver, Washington. (¼ mile east of Interstate-5 on 78th St.)

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1982 FEBRUARY 1982	1982 MARCH 1982
SUN MON TUE WED THU FRI SAT	SUN MON TUE WED THU FRI SAT
1 2 3 4 5 6	F, Q 2nd 1 2 3 4 5 6
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21 22 23 24 25 26 27	21 22 23 24 25 26 27
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Cavers Calendar

1982 APRIL 1982	1982 MAY 1982
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11-12 13 14 15 16 17	9 10 11 12 13 14 15
18 19 20 21 22 23 24	16 17 18 19 20 21 22
25 26 27 28 29 30	23 24 25 26 27 28 29
	30 31

February 7, Mount St. Helens Red Zone to be made drastically smaller, permitting access to most of the areas caves, if not all, if it weren't for the snow pack. The new Red Zone will encompass about 69,000 acres, mostly on the north side of the mountain.

February 19, Oregon Grotto General Meeting, at the Southwest Washington Research Unit, 1918 N.E. 78th Street, Vancouver, Washington. (¼ mile east of Interstate-5 on 78th Street.)

February 17-29, **CAVE TRECK 1982**. Two-week caving trip through Utah and Nevada. See further details elsewhere in this issue.

June 27-July 3, 1982 **NSS Convention**, in Bend, Oregon.

February 13-15, **NWRA Symposium on Cave Science and Technology**, in Boise, Idaho. See further details elsewhere in this issue.

COVER

A filled andesite tube on the Middle Sister? This volcanic feature, located on the northern margin of the Middle Sister's Renfrew Glacier at about 8800 feet elevation, looks suspiciously like a filled lava tube. The parent rock, which appears to be a platy andesite, is less resistant to erosion than the tube-like structure, resulting in this striking profile. Substantial lava tubes are rarely, if ever, reported in highly siliceous (quite thick when erupted) lavas such as the ones shown in this picture, but I'm at a loss for an alternative explanation. Another interesting point is that while filled lava tubes aren't uncommon in basalts, a cast of one that is weathering out reasonably intact seems to be. (If that is what is actually happening in the picture.)

I know of only one documented example of this phenomenon, a forty-foot long lava tube cast in Honolulu that was initially mistaken for a petrified log (Harold Palmer. 1929. "A Fossil Lava Tube," *Journal of Geology*, vol.37, no.3, pp. 272-274.

Photo and story by Craig Skinner.

Money Wrench

DUES DUE IN JANUARY

Buisman, family1-15-82
Wolff, Jim1-15-82

DUES DUE IN FEBRUARY

LaMarche, Clara, Roger.2-16-82
Schoonover, Keith.2-8-82
Vehslage, Gene2-20-82

DUES DUE IN MARCH

Davis, Bob.3-3-82
Kenty, Dean Paul3-16-82

DROPPED

Urman, Steve.10-20-81

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NSS CONVENTION 1982 BEND, OREGON

INFORMATION NEEDED CONCERNING PLANS FOR PRE, POST & DURING CONVENTION FIELD TRIPS!

Hundreds of cavers and their families are coming west for the 1982 Convention in Bend, Oregon, and will be passing your area. We hope that you will arrange a trip for them. Such trips can range from a simple "cave open house" (be there to greet visitors and tell them about the cave) to carrying out an elaborate week long trip (touring visitors to any number of caves and camping with them). Or you can write directions to a self-guided tour and answer communications about the caving area! The fun part of this activity is that it can be done anywhere in the West? So put on your thinking caps and come up with some concrete plans and ideas!

Send to: Dennis Glasby, 3580 S.W.104th Street, No. 1, Beaverton, Oregon 97005
Phone (503) 644-1066 after 7:00 p.m., by March 1st, if possible.

1. Name of trip and date?
2. Is the trip self guided or guided?
3. Who are the trip leaders? (names, addresses, phone numbers including area code).
4. Where does the trip begin and end? (dates, assembly time and place).
5. What type of transportation is being used? Will there be provision for folks who are traveling by public transportation?
6. What are the rigors of the trip or caves? (List special equipment needed. What about food or accommodations?)
7. Are there any special activities being planned for non-caving accompaniers?
8. Should attendees pre-register? How and with whom? By what date? Are there any special fees? Any age limit? How many can you handle on this trip?

If you wish to have the details of your field trip included in either the Convention Guidebook, or in an all-inclusive article on field trips for the May NSS NEWS we need your input now. (Becky Taylor, our Publicity Chairman, will do a

combined article of the type in the April & May 1975 NSS NEWS). Naturally, additional trips can be planned up to and including the week of the Convention. For these last minute trips, you can post a sign-up sheet at Registration and provide a hand-out of directions. Also you can advertise your Field Trip by putting a notice in the daily Conventioqram.

See You In Bend, June 27--July 3,
'82 Convention Chairman,
Ellen Benedict.

SPELEOGRAPHY OF PAPOOSE CAVE, IDAHO COUNTY, IDAHO

Speleography of Papoose Cave, Idaho County, Idaho, by George N. Huppert. Idaho Bureau of Mines and Geology Information Circular 35; October 1981. \$6.25 from Room 332, Morrill Hall, U. of Idaho, Moscow 83843. [Plus \$1.25 per book shipping.]

This is a condensed and re-condensed version of George Huppert's masters thesis on Papoose Cave. In it he proposes the term "speleography" for what most of us would consider properly thorough speleological study—this will not be totally popular. The publication is a good, thorough report on Papoose Cave and thus will be in the libraries of most northwestern cavers despite the high price (especially per unit page).

Many will complain about the miserable reproduction of the photos, especially at the price.

It contains extensive conservation messages and information on how to obtain access for further study, which this report will probably stimulate. (My own reaction after reading it was to want to go out and remap the cave, following the principles of the IUS which would move it several notches up in the list of the deepest caves of the U.S.

Among other contributions, it adds more data disproving the value of aragonite speleothems as paleotemperature indicators. The explanation of the cave's speleogenetic complexities is especially good and is applicable to many other caves in the Rocky Mountain Province such as Great Ex, for example. I recommend it despite the cost and the photo reproduction.

W.R. Halliday

I'VE HELPED WITH FIELD TRIPS FOR THREE NSS CONVENTIONS

by Ellen M. Benedict NSS 14037F

But of course, you say, doing field trips is your thing!. True. But NOT when I attended my first NSS Convention at White Salmon, Washington in 1972. Was I ever green and scared after getting talked into helping with the Biology Field Trip for that Convention. But I lived through the experience--in fact I really enjoyed it, made many new friends and learned a lot. As a consequence, I joined the NSS and the Oregon Grotto. It's hard to imagine a time when I wasn't an active NSS member writing articles for the Speleograph. I guess that everyone starts somewhere and my time was in 1972!

WHITE SALMON in '72 !

In February of 1972, I gave a paper on the Malheur Cave pseudoscorpion at the Annual Meeting of the Oregon Academy of Sciences, held that year at Portland State University. Afterwards a man (still unknown to me) invited me to give the paper at the NSS Convention at White Salmon, Washington. He pressed Charlie Larson's phone number on me. I somehow lost the scrap of paper. I had never heard of White Salmon, but I did know of the NSS. In fact I had written a letter about membership but never received an answer! Later in the spring, Stew Peck from Canada sent Dave Malcolm and me a paper on "cave invertebrates of western lava caves" for review. In passing I mentioned to Dave about my invitation to give our joint paper on the Malheur Cave papers at the NSS Convention in August. Dave encouraged me to do so. I hunted for Larson's phone number.

During the early summer of 1972, I naturally assumed that plans for both a Biology Session and Field Trip were well along. However eastern biospeleologists suffered under the illusion that our western caves lacked cave adapted invertebrates. (I knew differently but that is another long story). Also after its first burst of glory, the Biology Section was going underground for several years.

Little did I realize when I called the Larsons that I would soon be arranging both a Biology Session and a Field Trip! They were so nice about answering my questions--they referred me to Scott Long, the Program Chairman. Scott in turn referred me to his brother George (for the Field Trip) and Dr. Clyde Senger of Western Washington University (for the Session). In fact

I was to phone each person and talk them into chairing the activity so I could give my paper and attend a field trip. (Now I know that is the way a volunteer organization often works--as I said, I was exceedingly green in 1972. It's known as "if you want it, you can organize it." By the time I contacted the '72 Convention Staff, they had been working (and over working for months)--there are so many little details that often take so much time!).

George agreed to help Clyde and me with a field trip. We would visit Poacher's Cave in Troutlake area and then we would take some of the folk up to Bird Creek Meadows on Mt. Adams. Clyde would stay with the hard-core, cave crawlers looking for wee invertebrates. The Benedict's 15 year old son Lyle and George's future wife Kathy went with George and me on a scouting trip a few weeks before the Convention--what a memorable pleasant day. Our field trip went according to plan with about 30 folk in attendance. Several new cave invertebrate species were discovered also--an unplanned bonus!

In the meantime, I had called Clyde Senger long distance to ask him to chair the Biology Session. Clyde agreed and said that he would give a paper, "The Survival and Movement of Big-Eared Bats (*Plecotus townsendii*) in Lava Tubes in Southwestern Washington." George gave, "The Bats of Oregon; With Emphasis on a Bat Banding Program in Central Oregon" and I discussed "Cavernicolous Modification of a Malheur Cave Pseudoscorpion." We had two more papers, Frank Howarth's "The Fauna of Hawaiian Lava Tubes" and Bill Elliott's "Temperature Preference Responses of Some Aquatic, Troglobitic Crustaceans from Central Texas and Mexico." Not too bad for a last minute effort--about 30 people attended the Session.

At White Salmon, I met a number of wonderful people and had a very fine time even if I didn't know much about NSS Conventions! Lyle and I "camped in our blue mercury stationwagons" one or two nights, and commuted back to Portland on the other nights. This allowed Ben, Alice and Alan to attend part of the Convention. (Both Mark and Earl were away from home in the Service). Lyle and I helped with the Howdy Party on Monday night--I served the infamous potatoe salad from No. 10 cans, and Lyle helped Jo get the extra food into the school freezer. I met Kathy Block for the first time wrapped in a

few bits of spotted fur for the "Cave Fashion Judging." Kathy kept saying that she "never did anything like this!" On Wednesday, I attended Bill Halliday's "Vulcanospeleological Symposium"--one of the best sessions ever! Beth Wolff's paper on "Features of Lava Tube Caves of the Pacific Northwest" was impressive--I didn't know that lava caves had such exciting formations--and Beth did a good job of presenting the paper (I'm looking forward to a similar paper from Beth at the '82 Convention). Mary White ran the book sales (she was overworked and worried about keeping track of money and books--nowdays the NSS sends the two office secretaries to handle this heavy responsibility). Libby and Jim Nieland rushed around putting out the daily Conventiongram. And Jo Larson handled Registration (she was also Convention Treasurer), while Charlie Larson was Convention Chairman. Another highlight was seeing the best in this year's cave slides and photographs--at the NSS Photo Salon!

What a great Convention--I was hooked on NSS Conventions, but couldn't afford, at that time, to attend ones held in the east. I only read about the '73 and '74 Conventions, and saw slides of them. Imagine my excitement when I discovered that the '75 Convention was going to be held on the west coast!

FROGTOWN in '75!

This one was held in June of '75 in northern California, but I couldn't attend. My summer job with the Camp Malheur YCC began one week too early! I did, however, send the Benedict's son Earl (now back from the Army to give a paper on our Malheur Cave Research Project, and I helped Mary White prepare a joint paper on the Saddle Butte Lava Tube System. And we held a "caving open house" at Malheur Cave. Patty Silver (then Barnhart) and I wrote a description of Malheur Cave for the Convention Guidebook and as a hand-out at the Cave. On the day of our pre-convention field trip, I took the rubber rafts from the Malheur Field Station to the cave where I met Earl, Mary, Jo and Charlie. (Charlie and Jo had planned a pre-Convention Trip for the Saddle Butte System but it rained so hard that the road out there was too mucky, so they spent the day at Malheur Cave). Twenty-eight folk signed our guest register, some were locals from Burns, but the rest were cavers going to the Frogtown Convention.

Almost with tears in my eyes I watched the cavers leave for Frogtown as I returned to my job. I knew that I would be at the next NSS Convention, no matter where it was held! I was! Mary, Earl (and Earl's dog) and I drove cross-

country in Mary's Datsun to the Morgantown, West Virginia Convention in '76, and I have been going each year since then--Michigan in '78, Massachusetts in '79, Minnesota in '80, and Kentucky in '81. Now you can see why it is so exciting to have a NSS Convention in Bend, Oregon in '82--even if I have to help organize it to have one there! The Law of Volunteer Organizations is (as I said earlier) "If you want it, you can organize it!"

"EXCITEMENT AROUND THE BEND" in '82

This year, I am helping with a really elaborate pre-convention field trip, the Geology/Biology Field Trip to "Volcanic Landforms of Central Oregon." Since '77, the Convention Staff has offered some type of Sunday Excursion, generally a "Geology Trip" complete with two or three tour busses, and a Field Trip Guidebook. Our Sunday Excursion has been in the planning stages since the Pittsfield Convention in '79 which Susan Foster and I attended together. At that time, we basically planned the route and asked Russ Harter (Southern Cal Grotto) to help us. Last spring and summer, Ben and I tested the route, we are now writing the "Trip Log" for the Field Trip Guidebook which is to be bound with Charlie Larson's Convention Guidebook. In addition to the "Trip Log" we are including Frank Ireton's (Gem State Grotto) "Igneous Rocks," and Russ and Bill Harter's "Geology of Lava Tube Caves." I am also writing "Prolonged Collision: Land of a Thousand Volcanoes." Russ, Frank, Susan, Larry Chitwood (Deschutes National Forest) and I will serve as guides for the two tour buses (trip limited to 78 persons) which will leave Mt. View High School in Bend, Oregon, at 8:00 a.m. and return by 10:00 p.m. Gale Beach (San Francisco Bay Chapter) is Transportation Chairman for the Convention and has already gotten bids for the buses. These Sunday Excursions include food--therefore, Cynthia Fiack (Western Region) is providing "Coffee" at 7:30 a.m. (our assembly time for stop No. 1 at Mt. View School), lunch at Newberry Caldera, and dinner at Fort Rock. Naturally this Sunday (June 27th) Excursion will cost extra, even so there has always been a waiting list. We must ask for a deposit as the bus Company requires an advanced payment. (I said that this is an elaborate pre-convention trip)!

Now that you've read about the three Convention Field Trips I've helped with, why don't you get together with some friends and plan one of your own for the '82 NSS Convention in Bend, Oregon? It need not be elaborate like our Sunday Excursion, but you can have a lot of fun, meet new friends and learn something too! There is still time!

A REVIEW

by Ben Benedict NSS 21743

Challenging the wilderness backpacker to experience one of the most remote, rugged, pristine natural areas in Oregon, Robert W. Gail has written a *Desert Trail Guide, Pueblo Mountains, Oregon*, c.1981, published by the Desert Trail Association, P.O. Box 589, Burns, Oregon, 97720, in cooperation with Parks and Recreation Division, State of Oregon, 525 Trade Street, S.E., Salem, Oregon, 97310, and the U.S. Department of the Interior, Bureau of Land Management--Burns District, 74 S. Alvord Street, Burns, Oregon, 97720. (Copies of the *Desert Trail Guide* Can be obtained from any of the above agencies.)

Mainly following the crest of the Pueblos for 22 miles from Fields, Oregon, to Denio on the Oregon-Nevada border, this desert trail will ultimately constitute a part of the proposed National Desert Trail. Robert Gail has provided the trail traveler with detailed point to point directions (48 cairns marking the way), as well as cogent advice about equipment, water, wildlife, geology, weather, camping, and fires. He cautions hikers that they "are fully responsible for their own safety and for the cost of rescue in the event of accident or illness."

The *Desert Frail Guide* contains an excellent map of the area and several colorful photographs and drawings.

FOUNTAIN CAVE VANDALS FREED

(The following is reprinted, with permission from *The Potomac Caver*, vol.24, p.194.)

Earlier this fall, John Wilson and some fellow cavers caught a group of four students from James Madison University "red handed" with some formations they were removing from Fountain Cave. John was able to get photographs of the four vandals in action. John felt this would be a perfect test for the new Virginia cave protection statute.

When the students were notified of the legal action against them, they all sought legal counsel. The attorney for the prosecution was able to obtain written testimony from each of the students, ratting on the others. With the testimony John thought he had an airtight case. Who knows, he might even collect the reward that the

Virginia Cave Commission was offering for the arrest and conviction of cave vandals.

When the case was heard in court, the defense attorney argued that the students were collecting speleothems for scientific purposes, and that besides, they were innocent students and unaware of the law. Moreover, the cave was not posted concerning the law. As the title implies, the judge was sympathetic and let them off. So much for protecting caves by law.

FREEBIE

[We thought we should include a mention of a publication which could be of interest to grotto members as well as those distant readers (of exchange publications) who plan on attending the NSS Convention in Bend.]

Guides to Some Volcanic Terranes in Washington, Idaho, Oregon, and Northern California, is published as Geological Survey Circular 838, by U.S.G.S. Its 189 pages describe several geological field trips, four of which begin or end near Bend, Oregon. Of more than passing interest to northwesterners is that it was co-edited by the geologist David A. Johnston who was swept away by the May 18 blast of Mount St.Helens.

There isn't much in this publication regarding caves—many of which are known to exist in the areas described—but it is a big help in understanding the geology which is, of course, inseparable from caves. Best of all, it's free, and may be picked up for the asking at the downtown Portland office of Oregon's Department of Geology and Mineral Industries (until they run out), 1069 State Office Building, Portland, Oregon 97201. They will not mail them to applicants. Or: a copy may be requested (still free—if you don't pay taxes) from Branch of Distribution, U.S. Geological Survey, 604 S. Pickett Street, Alexandria, Virginia 22304.

TRIP LEADERS NEEDED

Dennis Glasby needs trip leaders for post-convention Mount St. Helens trips for the weekend following convention. July 3rd, 4th or 5th any one of these days. Please contact Dennis at (503) 644-1066 or Larsons at (206) 573-1782

OREGON GROTTO MEMBERSHIP LIST

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Prices are for OREGON GROTTTO members only. There is a 10% surcharge to non-members. Sorry, NO mail orders!

Prices effective January 1, 1982

PREMIER

Cap Lamp \$20.50

Parts:

Bottoms 5.00
 Flat Blades 1.15
 4" Reflectors50
 6" Reflectors50
 Strikers 1.50
 *Tips95
 Water Doors80
 Wing Nuts65

HELMETS

Lamp brackets \$1.80
 Helmet liners 3.00
 Chin straps 1.00
 Used hard hats:
 -with sweat band 2.00
 -shell only 1.00

New:

L-1 Lamp brackets 2.55

VERTICAL

Carabiners:

Oval Liberty \$4.40
 Locking "D" 6.35
 Gibbs Quick-Release
 ascenders 21.00

CARBIDE

Miner's grade (1/2"):
 2-1/2 pounds \$.85
 5 pounds: 1/4" 1.00
 1/2 1.60

JUSTRITE

Electric \$12.10
 Electric, cap unit only 9.05
 Battery case (for above),
 4 x "D" cell 3.30
 No.425 Bulb45

New:

Honeycomb lens50
 PR-2 Bulb25
 Rubber Grips85

Parts:

Felt plates50
 Flame protector35
 Flat blades 1.15
 Hex nuts25
 4" Reflectors 3.25
 Reflector brace65
 *Tips50
 Tip cleaner 1.55

MISCELLANEOUS

Chemical lights:
 Regular \$1.00
 High-intensity 1.10
 Flashlight; "D" cell 3.00
 Metal matchbox80
 GI can openers10
 Lens tissues05
 T-Shirt transfers;
 four designs50
 Flashbulbs, No.11, screw
 base05
 Wrestling kneepads 4.00

New:

"Canvas Grip," 8-oz. 1.75

REPAIR KITS

Repair kit no.1:

Felt, flint, gasket, tip
 reamer and striker \$2.25

Repair kit no.2:

Felt, flint, gasket and tip
 reamer (No tip)75

Parts:

Felts 15
 Flints 5/.60 15
 Gaskets 15
 O-Rings 2/.15
 Tip reamers30
 Striker springs 2/.25
 Tips; Justrite50
 Tips; Premier95
 Strikers 1.50
 Felt holders80

*Note different prices for tips.

PATCHES, DECALS, ETC.

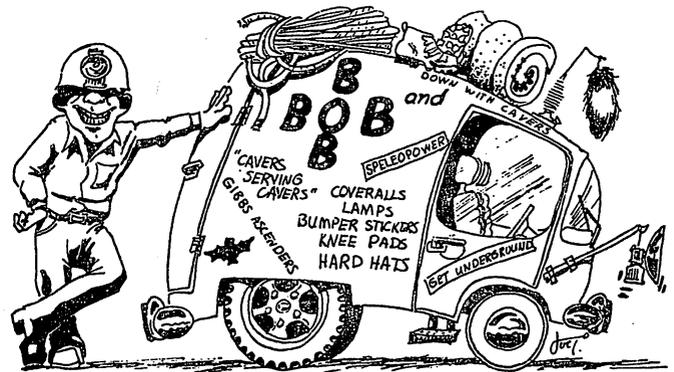
Oregon Grotto \$1.00
 NWRA 1.55
 NSS car plate 2.25
 NSS decal 2/.45
 NSS sticker55
 NSS belt buckles 7.25

BOOKS

Caves of Oregon \$1.65
 Bibliography of Sea Lion
 Cave55
 Bibliography of
 Oregon Speleology 6.00
 Proceedings of the Interna-
 tional Symposium of
 Vulcanospeleology 7.50

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- JUMARS
- BUMPER STICKERS
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- PIGEON MOUNTAIN ROPE
- JUSTRITE HAND LAMP PARTS
- FIBRE-METAL HELMETS & PARTS
- WATERPROOF MATCH CASES
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**THE
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