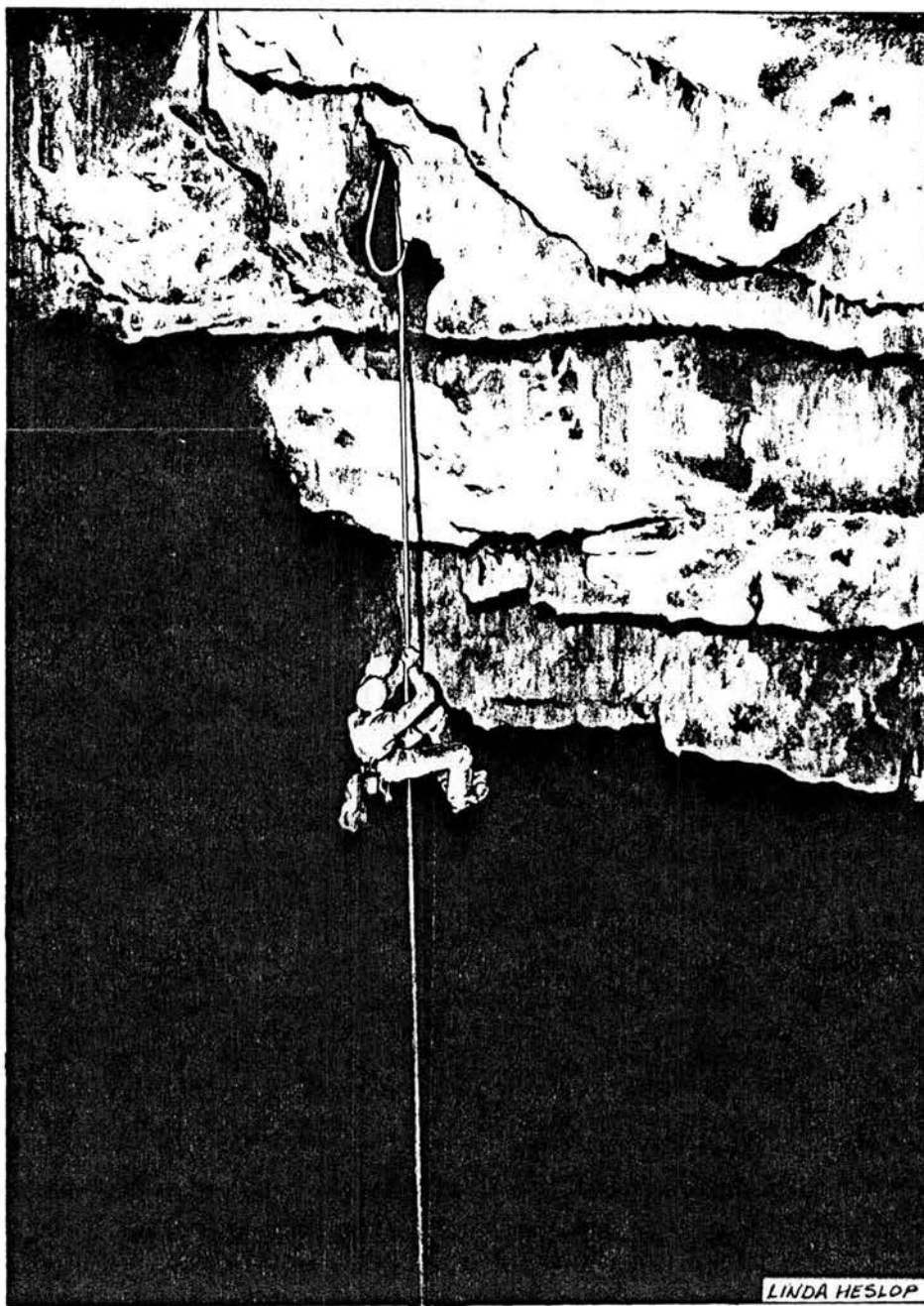


The Cascade Caver

Published by the Cascade Grotto of the National Speleological Society

Volume 26, No. 9 of 9

November-December 1987



LINDA HESLOP

CASCAD E CAVER

The *Cascade Caver* is published 10 times a year by the Cascade Grotto, a member of the National Speleological Society. All correspondence should be sent to: The Cascade Grotto, P.O. Box 75663, Seattle, WA 98125-0663.

Meetings: 7:00 pm on the third Friday of each month at the University of Washington, Room 6, in the basement of Johnson Hall.

Officers:

| | | |
|------------------|---------------|----------------|
| Chairman: | Jim Harp | (206) 745-1010 |
| Vice Chairman: | Jeff Forbes | (206) 885-5758 |
| Sec/Treasurer: | Larry McTigue | (206) 226-5357 |
| Regional Rep: | Ben Tompkins | (206) 546-8025 |
| Storekeeper: | Bob Martin | (206) 878-7634 |
| Librarian: | Larry McTigue | (206) 226-5357 |
| Map Librarian: | Rod Crawford | (206) 543-9853 |
| Trip Coordinator | Mark Wilson | (206) 285-5724 |
| Editors: | Mark Sherman | (206) 524-8780 |
| | Ben Tompkins | (206) 546-8025 |

Dues: Membership in the Cascade Grotto including subscription to the *Cascade Caver* is \$7.50 per year. Dues for additional family members is \$1.50. Subscription to the *Cascade Caver* only is \$7.50 per year.

Please note the date on your mailing label that indicates when your dues expire.

Overdue: Rob Stitt 8/87, Sheila Balsdon 10/87

Due: Bob Martin 11/87, Tom Miller 11/87, John Clardy 12/87

Coming up: David Becker 1/88, Dan McFeeley 1/88, Jeff Forbes 2/88

New Members: John Day; P.O. Box 123; Marblemount, WA 98267; (206) 873-2542
Adriyah Hanum; 7530 - 32nd Ave NE; Seattle WA; (206) 527-1618

New New Address: There were too many zeroes in Jeff Forbes' new address last month. It should read: 15540 N.E. 60th, Redmond, WA 98052

Cover: Donna Elliot at the Fall Pot Pitch in Cow Pot, England. Drawing by Linda Heslop from a photo courtesy of Dave Elliot, Lizard Speleosystems.

CONTENTS

| | |
|--|----|
| UPCOMING EVENTS | 83 |
| NOMINATIONS FOR 1988 OFFICERS. . . | 83 |
| NOVEMBER POTLUCK | 83 |
| BEST NIGHT FOR MEETINGS | 84 |
| ANOTHERADVENTUREATWINDYCREEK | 84 |
| BACK TO WASHINGTON MONUMENT . | 85 |
| WINDY CREEK CAVE FAST AND DIRTY | 85 |
| CASCADE AND HELLHOLE CAVES . . . | 86 |
| CASCADE AND HELLHOLE CAVES . . . | 86 |
| SKAGIT COUNTY TALKS | 87 |
| DECLIVITOUS PRACTICE SITE, | 87 |
| CUMULATIVE INDEX TO 1985 through 1987 | 87 |

UPCOMING EVENTS

- Dec 18 Grotto Meeting. Ballots for grotto officers due.
Jan 15 Grotto Meeting

NOMINATIONS FOR 1988 OFFICERS

Nominations for Cascade Grotto officers for the coming year were made at a short meeting at the November Potluck. Nominations were:

Chairman: Mark Wilson
Vice Chairman: Dick Garnick,

Rob Lewis
Sec/Treasurer: Larry McTigue
Ben Tompkins
Regional Rep: Ben Tompkins
NCRI Rep: Mark Sherman

Those who are eligible to vote will receive ballots with this issue of the Cascade Caver.

NOVEMBER POTLUCK

Ben Tompkins

About 32 people attended the November Potluck at Dr. Halliday's house on the 21st, including cavers from the Oregon Grotto, VICEG, and a number of former Cascade Grotto members.

After doing our best to decimate the food supply, we had a short meeting to nominate officers for the coming year. We also voted to include a survey with the ballot to determine the meeting night preferred by grotto members.

At that time Dr. Halliday made a motion that the grotto oppose the current wording of the Federal Cave Protection Law. Charlie Larson, of the Oregon Grotto, also spoke briefly on why that group opposes the current wording. Both speakers support the need and intent of the law. The Cascade Grotto has already gone on record as supporting the current bill. Bob Brown suggested that everyone read the text of the law and form their own opinions before the grotto reverses its earlier decision and opposes its parent organization.

Dick Garnick and Jeff Forbes were showing slides as I left and video equipment was being set up. People were converging on the food counter again when I came back in to grab my salad bowls. Many thanks to Jim Harp for putting together a successful potluck and to Dr. Halliday for the use of his house.

BEST NIGHT FOR MEETINGS

Larry McTigue

We've had many heated discussions over the years as to which night of the week is best for holding our monthly grotto meetings. It was Monday night for many years and then moved to Tuesdays. Most recently we've been meeting on Fridays. There will always be conflicts with someone's schedule no matter which night we choose.

I think Friday nights are best for several reasons. Most importantly, it allows members living outside the Seattle area time to get to the meetings and if necessary, spend the night in Seattle. Secondly, it allows us to plan monthly cave trips where everyone, including out of town members, could get together for the weekend following the meeting. Since it is only once a month, there are still all the other Fridays and weekends in the month to party and go on your own cave trips.

Thirdly, and most important to me, Fridays are the only night during the week that I don't work in the evenings. So if you want to see me there, vote for Fridays!

ADVENTURE AT WINDY CREEK

Jerry Thompson

On Saturday morning, September 19th, several Cascade Grotto cavers were to be found on various ridges on the flanks of Washington Monument just south of Mount Baker. Dick Garnick, Larry McTigue, and Rob Lewis had driven up after Friday night's grotto meeting and camped on a karst ridge just south of the monument. On Saturday morning Jerry Thompson, Jim and Amanda Harp, and Jennifer Strong drove directly to the Windy Creek "trail head" via Scott Paper roads.

While Dick, Larry, and Rob were doing some early morning cave hunting, the larger group headed for the Windy Creek Cave. At the cave area Jim and Jerry prepared to climb to Hole in the Sky Cave. Amanda and Jennifer tried Roberts Cave but after getting a whiff of the porcupine den decided to explore the entrance maze in Windy Creek Cave. Dick and Rob soon joined Jim and Jerry while Larry spent his efforts digging in the nearby resurgence.

Getting to Hole in the Sky Cave requires a near-vertical climb of more than ten meters up through a hole in an overhang into a roomy entrance chamber.

This chamber is about 2m wide, 3m high, and 13m long with both ends plugged with soil. The dirt on the north end contained live roots and digging was difficult. On the other end the plug contained fewer roots and more humus making the digging easier. It looked as though it would take a lot of digging to turn the chamber into a cave. While we were there we observed at least two species of moth and two bats, not identified.

Around 2:25 p.m. we turned our attention to Windy Creek Cave and within an hour small groups were visiting the formation area. One bold group, lead by Rob Lewis, pushed through to the Bear Pit from the Lead Room. Rob disappeared into the little crack with such ease that he seemed to float into it horizontally. He was followed by Jennifer Strong, a first-time caver, who got stuck about a meter after entering the crack. With Rob pushing on one side and the rest of us pulling on the other, she was soon free and able to back out of the crack. The gutsy young woman reentered the crack only moments later and followed Rob through to roomier passages. Her constant commentary while moving through the more difficult parts kept the rest of us excited and entertained.

Amanda bravely followed, refusing to be frightened by reports from the crack. Normally a soft-spoken lady, Amanda also found a good deal to talk about in this passage. After taking note of the bear bones, the group returned even more gracefully than they had gone in.

While leaving the cave, Dick Garnick entered a passage that he felt may have been previously overlooked because it would normally be below water level in the main stream passage. As he followed the passage it began to gain elevation. He turned around after About ten meters but the passage continued, still gaining elevation.

After spending a little over four hours in WINDY Creek Cave, the entire group hastened to Sedro Woolley and the Cascade Pizza. There they quickly took care of two large Cascade Specials, one

pitcher of lager, and several pitchers of pop.

BACK TO WASHINGTON MONUMENT

Jerry Thompson

Early on the morning of September 26, Jim Harp and Jerry Thompson drove back up the Grandy Creek Road to meet Dick Garnick and his friend Diana at the Grandy Lake Campground. Dick had been suffering from a cold and after hearing the rain beat on the canopy of his truck for so many hours elected to forego the long slog in the wet brush in favor of some serious recuperating elsewhere.

Jim and Jerry spent about forty-five minutes examining the southern portion of the karst area then dropped to the resurgence just north of the Windy Creek entrance. Next they climbed to a hole in the wall that was noticed the previous week about thirty feet above the resurgence. It was just that, a hole, half a meter in diameter and about a meter deep. It was choked with dirt at the back but no attempt was made to dig it deeper.

From there they followed the bottom of the cliff south from Windy Creek and Roberts Caves. About 100 meters south they located what they believed to be Unnamed Cave B, described in the Windy Creek Cave issue of the Cascade Caver. Jim was able to force himself about 14 meters back into the narrow passage. The cave was dry with piles of fresh leaves and feces suggesting recent habitation by a porcupine-sized mammal. No quills were noticed, however. Moths were present in moderate numbers and at least one unusual arachnid was seen.

After about 40 minutes in the small cave the cavers returned to the karst area via a well used elk path leading up through the cliffs. They picked a few oyster and coral mushrooms and made it back to Everett in time for Jim to have dinner with his family.

WINDY CREEK CAVE FAST AND DIRTY

Jerry Thompson

On Sunday, October 4, Jim Harp and Jerry Thompson returned to Windy Creek Cave to check out the lead found by Dick Garnick a couple of weeks earlier. At the cave register they learned that two parties had been to the cave the day before.

Jim forced his way into Dick's little passage and got about as far as Dick had. Jim felt that even a very small caver would have difficulty going on from there.

Jim and Jerry returned to the main passage and just within a few meters located the "Upper Stream Passage". They followed this to where it opens to the ceiling of the "Waiting Room". A short side trip lead to the "Twin Dome Pits". About midway along the upper stream passage they passed through a small area decorated with soda straws but most of this passage is very narrow and muddy.

After less than three hours in the cave the two were muddy enough and had seen enough of the cave that was new to them to justify leaving the Bear Pit for another day. They sped back to Everett in time for Jim to surprise his wife by having dinner prepared for her, a tactic calculated to help assure another couple of trips yet this season.

CASCADE AND HELLHOLE CAVES

Sue Brenner

Cavers: Sue Brenner, Larry McTigue, Joe Senulis, Mark Sherman, and Richard Walter.

I had planned to go backpacking in the Olympics, but it didn't take much besides the threat of rain and the chance to go caving to change my mind. Mark picked me up and off we headed to Alpentel. With Mark was Joe, a member of the Wisconsin Speleological Society. We met Larry McTigue at Alpentel and were soon headed up the "trail". It was very steep, wet, muddy, slippery, and a real challenge. I think Mark said it was about

2800' vertical in about in two miles and I kept thinking we were almost there.

Finally we arrived and so had a Canadian member of our grotto, Richard Walter. He had been avidly looking for caves and waiting for us. We sat down and enjoyed lunch and the views of the Tooth and Chair Peak. We had a short "before" picture session of me in my white coveralls and bug hat then descended into Cascade Cave.

I'm not very good at describing the cave. I remember lots of dirt, chimneys, tight places, some flow stone and more dirt, but I can't give a complete account of our itinerary. I remember some of the jokes though, and some of the horror stories. Richard kept saying that if anything really bad happened, we could even get our names in the NSS News. OH BOY!! Luckily Mark was an excellent guide, or I'd probably still be down there telling jokes and complaining about cold feet. Or worse yet, STUCK! There were some tight places where my beautiful, hand embroidered white overalls managed to snag on the rocks, catching me and my battery pack in a stationary position. Finally I realized that I'd have to push the battery pack ahead of me in those tight places.

By the time we reemerged from Cascade Cave it was about 4:00. The sun was still shining, prompting the comment, "I wonder what the cave would look like in the dark". We decided to drop into the back entrance of Hellhole to see the allophane formations. Since it was getting late we took a few pictures and left Hellhole. The trip back to the car was uneventful; everyone kept poking their noses into small caves on the way back but luckily the bears weren't home.

It had been a fun roll in the mud but I didn't have white overalls any more.

CASCADE AND HELLHOLE CAVES

18 July 1987

Joe Senulis

(Note: Taken from the WISCONSIN CAVER, September 1987, with the same cast of characters as above)

This was a Cascade Grotto trip that I crashed, being out that way for a conference. We went up to Cave Ridge, in the Cascade Range. The hike up was quite beautiful, with the spring flowers just starting to bloom (the trilliums had yet to bud). The caves were about a mile and a half away, and 2000 feet up. The trail ended in a hanging valley containing a few pockets of snow. It was like going up to Popp's cave ten times over. Richard came up on his own, and did not know that there was a trail. His jokes and bad puns were a welcome addition.

The caves were in highly metamorphosed limestone (it looked like marble to me), capped by granite and containing igneous intrusions. The rock was quite jagged, and where it was clean of mud, the marble was similar to leopard spots. The mud supplemented Sue's designer wardrobe of white coveralls, violet socks, crimson knee-pads, and one black elbow-pad. (She started caving in California.)

Cascade Cave developed mostly vertically, but with not too much climbing necessary. The original entrance was on the tight side, and with all of the large-entranced caves on the ridge, was not mentioned in Caves of Washington.

Speleothems were not abundant, but were very nice when present including a fine example of boxwork.

Since we were running short of time, we only took a quick trip into the back entrance of Hellhole to see some interesting allophane speleothems. The entrance had a nice tight spot in it that seemed to catch on anything possible. The allophane ranged in color from dull orange to bright red to near black, and formed finely rippled coatings and draperies.

The trip down the ridge was much easier than the climb up, except for the knees. However, a thunderstorm heading

our way was cause for concern. Midwest storms may be more violent, but we were awfully exposed to lightning up there.

SKAGIT COUNTY TALKS

John Clardy

On a warm May 9th at 11:30 I am parked along National Forest Road 14 above Jackman Creek and began a series of blowing hole digs. Rock retaining walls mark my sites. A passing road grader was my only company. No excavation advanced more than a few feet before meeting rock too large to roll away. One hole beside mile marker post four does make a great beer cooler.

I put away my tools at 7 pm and scouted the mountainside above the digs for an hour. About fifty feet above the roadbed a cliff face fissure nearly seven feet high and twelve inches wide was blasting out cold wind. It might go if I stay on my diet plan. Uphill amid large mossy boulders I observed a shield speleothem in a dry dusty grotto. Further on were three sinks. A tiny depression in heavy brush presented a vertical entrance some ten feet deep and contained something that carried off the stones that I dropped. Close at hand is a large sink which evidently ate several tons of rock recently in cataclysmic fashion. Accidently falling into a third sink cost me my trousers. I didn't mind. Friends, I think that mountainside is trying to tell us something.

DECLIVITOUS PRACTICE SITE, WHATCOM COUNTY

John Clardy

Depart Interstate-5 at Exit 250 in Bellingham. Drive West 1.2 miles on Valley Parkway. Turn South at Chuckanut Drive (State Highway 11). Proceed 4.5 miles to Cove Road which is posted as the Chuckanut State Park Boat Ramp route. The Park entrance occurs 0.3 miles along Cove Road.

The Boat ramp site does not have an entrance fee, drinking water, or restrooms.

Locate a gravel path leaving the uphill parking lot to the B. N. railbed, walk South on the rails for fifty feet and climb the hillside on the right. Five minutes from the parking lot should see you atop a beautiful sandstone climbing face.

Excellent natural rig points are available. A one hundred and fifty foot rope will serve nicely. Several bolts dot the exposure but intermediate skill level climbers may ascend without aides. Basic rock skill level climbing is sporting. A nice sandy beach flanks the cliff base but high tide rappel practice can use a ledge or two to keep dry. Prusik involves wall contact. A small rope pad and ten feet of line is suggested.

State Park management has no climbing restrictions at present so be nice. Good campground facilities are available elsewhere in the park, including hot showers, and appreciative onlookers for Yo-Yo extroverts.

CUMULATIVE INDEX

1985 through 1987

The Cascade Caver is published in 1-year volumes, each starting in January. Pages are numbered consecutively through all issues in a volume and references in this index are given as vol:page. For example, 24:10 refers to volume 24, page 10. Volume 24 was published in 1985, volume 25 in 1986, and volume 26 in 1987.

Accidents

Thanksgiving Cave, Vancouver Island
B.C.: 25:43

Barbados

Barbados Caving 1984: 24:33

Battery Charger: 26: 54

Belgium

A Flying Trip to Caves In
Belgium: 26:65

Belize

Chiquibul River, Belize: 25:03

Bighorn Project 26:74

NCRI 1986 Work Session at Bighorn
Cave, MT: 25:38

Biology

Niche differentiation, abstr: 24:16

Book Report

"MY CAVES" book report: 25:16

Books in the Grotto Library 25:65

Botany

Talk by Dr. Geoff Spaulding: 25:34

Brenner, Sue

Cascade and Hellhole Caves: 26:86

British Columbia

Speleofest, 1984: 24:47

Brown, Bob 26:74

Hell's Canyon: 26:78

It's Your Club: 25:45

NCA Digest: 26:18

California

Santa Cruz County Trip Report: 26:07

Carroll, Robert W., Jr

Extracts from a letter from: 25:62

Large Talus Caves of the World: 25:05

Cascade Caver

Cumulative Index, 1982-84: 24:06

Cumulative Index, 1985-87: 26:87

Printing Experiment: 26:74

Production Costs: 26:65

Writing Trip Reports: 24:65

Cascade Grotto

Bylaws: 24:37 25:27 26:36

Constitution: 25:26 26:35

Membership List: 24:42 25:17 26:28

Operating Policy: 25:28 26:37

Stores: 26:60

Casteret, Norbert

"MY CAVES" book report: 25:16

Cave Diving

Malaspina View Resurgence,
B.C.: 25:12

Cave Hunting

Cave Hunting near Arlington,
WA: 25:07

Cave Rescue Planning 26: 04

Caves

Ape Cave, Skamania Co. WA:
26:60 26:66

Arch Cave, Vancouver Island
B.C.: 26:17

Beaver Cave, Skamania Co. WA:
25:25 26:32

Bighorn Cave, MT: 24:52

Cascade Cave, King Co., WA: 26:86

Cascade Cave, Vancouver Island, B.C.:
26:49

Cave-In-Rock, IL: 24:37

Chiquibul River, Belize: 25:03
 Danner's Cave, Skagit Co., WA: 26:75
 Deadhorse Cave, Skamania Co. WA:
 26:06 26:77
 Devil's Bath, Vancouver Island B.C.:
 26:16
 Dock Butte Cave #4, Skagit Co. WA:
 26:69
 Donlan's Cave, WA: 25:64
 Dynamited Cave, Skamania Co. WA:
 26:06
 Elephant Hide Cave, WA: 26:08
 Ennis Cave, AR: 25:35
 Fletcher Creek Cave, B.C.: 26:33
 Friar's Hole System, WV: 24:12 24:15
 Glory 'Ole, Vancouver Island B.C.:
 25:61
 Government Cave, AZ: 25:35
 Hole-in-the-Sky Cave, Skagit Co., WA:
 26:84 26:75
 Horne Lake Cave, Vancouver Island,
 B.C.: 26:49
 Ice Cave, Skamania Co. WA:
 25:24 26:06
 Indian Rock Cave, Pend Oreille Co.
 WA: 25:34
 JaR Cave, Skamania Co. WA:
 25:24 26:06
 John Martin's Cave, Hawaii: 24:05
 Judd Street Cave, Hawaii: 24:05
 Lake Cave, Skamania Co. WA: 25:35
 Little People's Cave, Skamania Co.
 WA: 25:43
 Little Red River Cave, Skamania Co.
 WA: 24:45 25:35 25:35 25:62 26:32
 26:33 26:66
 Long Lava Tubes of the World: 26:79
 Madison's Fence Cave: 25:25
 Malaspina View Resurgence,
 Vancouver Island B.C.: 25:12
 Minigill, Vancouver Island B.C.: 26:17
 Neelie Creek, WA: 25:64
 Newton Cave, King Co. WA:
 25:51 25:55
 Ole's Cave, Skamania Co. WA:
 25:25 26:32
 Onyx Cave, KY: 24:37
 Papoose Cave, ID: 24:49 24:61 26:75
 Papoosito Cave, ID: 24:50
 Perry's Bone Closet Cave, Skagit Co.
 WA: 26:75
 Pig Pen, ID: 26:79
 Poacher's Cave, Skamania Co. WA:
 25:25
 Ramsey Cave, Skagit Co. WA: 25:37
 Redfish Cave, ID: 26:78
 Resurgence Cave, Skagit Co. WA:
 26:69
 Roberts Cave: 26:84
 Sand Cave, Skamania Co. WA: 25:43
 Senger's Talus Cave, Whatcom Co.,
 WA: 25:15 25:42
 Shaft Cave, WA: 26:08
 Sistema Purificacion, Mexico: 25:43
 Snowpatch Cave, Skamania Co., WA:
 25:25
 Sumas Mountain Cave, Whatcom Co.
 WA: 26:17
 Thanksgiving Cave, Vancouver Island
 B.C.: 24:54 24:62 25:12 25:43
 Three Sinks, WA: 26:78
 Unnamed Cave B, WA: 26:85
 Vanishing River, Vancouver Island
 B.C.: 26:17
 Windy Creek Cave, Skagit Co., WA:
 26:84 26:85 25:34 26:74 26:75
 26:78
 Windy Link Cave, B.C.: 24:47
 Clardy, John
 Cave Register Evaluation: 26:56
 Declivitous Practice Site: 26:87
 Santa Cruz County Trip Report: 26:07
 Skagit County Talks: 26:87
 Skagit County Trail Guide to Talus
 Caves: 26:26
 Clem, Bill
 Manual Hauling Systems: 26:43
 Cole, Forbes, McFeeley
 Thanksgiving Cave, Vancouver Island:
 25:12
 Cole, Roger
 Trout Lake Caves: 26:06
 Crawford, Rod
 Cascade Grotto Map Library: 24:56
 Diamond, Michael
 My Trip to Windy Creek: 26:78
 Dominican Republic
 Public caves in Santo Domingo: 24:54
 Dye Tracing
 Newton Cave, King Co. WA: 25:55
 Ramsey Cave, Skagit Co. WA: 25:37
 Federal Cave Protection Law
 Discussion: 26:84

Fiction

Cave - Kathryn MacDonald: 26:57
Horne Lake Brochure: 26:54
Slippery Elm Creek: 26:25

Forbes, Jeff

Glory 'Ole, Vancouver Island: 25:61
Newton Cave Dye Trace: 25:55
Newton Cave, The Definitive Survey:
25:51
Papoose Trip Report: 24:61
Ramsey Cave, Skagit County: 25:37
Scouting the Clayquot Plateau: 25:36
Thanksgiving Cave, Vancouver Island:
24:54

Garnick, Dick

Black Mountain Trip Report: 26:08
Horne Lake and Cascade Caves: 26:49
Sumas Mt. Cave Visit: 26:17
Temperatures in Windy Creek Cave:
26:74
Windy Creek Trip Report: 26:74

Geology

Cave Hunting near Arlington, WA:
25:07

Graphic Arts Salon Ribbons 26: 64

Halliday, W.R.,MD.

A flying trip to Caves in Belgium:
26:65
Badlands Pseudokarst in Petrified
Forest: 25:36
Barbados Caving 1984: 24:33
Cave-In-Rock to Cave City: 24:37
Caving En route to the Grand
Canyon: 25:35
Caving Increasing in Hawaii: 24:05
Clarification to History of NW
Caving: 25:08
Lava Caves of South Italy -1985:
25:04
Mount St. Helens Report: 25:43
Nashville Speleohistorical Mini-trip:
25:16
Nashville Wednesday Night Caving:
24:46
New and Old Lava Tubes in Hawaii:
26:09
Observations in Mt.St. Helens
Pseudokarsts: 25:06
Recent News from East Africa: 26:09
Weekend Tourist Caving in Santo
Domingo: 24:54
Yucatan Caves, 1987 Style: 26:66

Harp, Jim

Little Red River Cave: 25:35
Mt. St. Helens Trip Report: 25:25
Senger's Talus Cave,: 25:15

Hauling Systems 26: 43

Hawaii

John Martin's Cave, Hawaii: 24:05
Judd Street Cave, Hawaii: 24:05
New and old Lava Tubes in: 26:09
Niche differentiation, abstr: 24:16

Heslop, Linda

Lava Tubing in Washington: 24:45

History

DeMonbreum's Cave, TN: 25:16
Northwest Caving: 24:17 24:25
re History of Northwest Caving: 25:08

Howarth, Francis G.

Niche Differentiation, abstr: 24:16

Hoyt, Howard

Trout Lake Regional: 26:55

Idaho

Papoose Cave, ID: 24:49 24:61
Papoosito Cave, ID: 24:50

Illinois

Cave-In-Rock, IL: 24:37

Index

Cumulative Index to 1982-1984: 24:06
Cumulative Index to 1985-1986: 25:66
Cumulative Index to 1985-1987: 26:87

Italy

Lava Caves of South Italy: 25:04

Kentucky

Onyx Cave, KY: 24:37

Klinger, David

NWCA meeting, August 1986: 25:50

Korea, The Caves of Cheju-do 26: 15

Larson, Shaun

Horne Lake and Cascade Caves: 26:49

Lava Tubes

Lava Caves of South Italy: 25:04
Long Lava Tubes of the World: 26:79

Library

Grotto Book Library: 25:22
Newsletters in the Grotto Library:
26:19

MacDonald, Kathryn

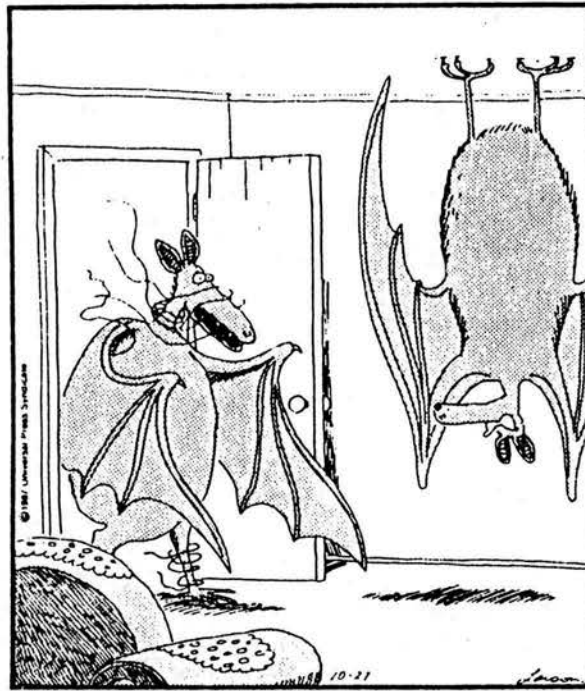
Cave: 26:57

Map

Malaspina View Resurgence, B.C.:
25:13
Map of grotto meeting place: 25:18

- Newton Cave, King Co. WA: 25:51
 Perry's Bone Closet Cave, Skagit Co., WA: 26:75
- Maps
 Cave names published on maps: 24:55
 Grotto Map Library: 24:56
- McTigue, Larry
 "My Caves" by Norbert Casteret, book Report: 25:16
 Best Night For Meetings: 26:84
 Dock Butte Trip Report: 26:68
 Grotto Book Library: 25:22
 Letter to the U.S.G.S: 24:55
 Mt. St. Helens Area: 26:32
 Trout Lake Caves: 25:24
- Mexico
 Yucatan Caves, 1987 Style: 26:66
- Miller, Tom
 Christmas Corral at Thanksgiving Cave: 24:62
 Friar's Hole System, WV: 24:15 24:12
 History of Northwest Caving: 24:17 24:25
 Vancouver Island Speleofest, 1984: 24:47
- Montana
 Bighorn Cave, MT: 24:52
- Mt. St. Helens 26:32
 National Monument boundary errors: 25:44
 Observations in Mt. St. Helens Pseudokarsts: 25:06
 Reply from Monument on Moving Markers: 25:45
 Spirit Lake Pseudokarst: 25:44
 Timber Sale Planning: 26:54
- Northwest Caving Association
 August 1986 Meeting: 25:50
 Digest: 26:18
 Meeting at Trout Lake: 26:64
- Northwest Regional, 1987 26: 14
- Ogawa, Takanori
 Long Lava Tubes of the World: 26:79
- Paleoecology
 Talk by Dr. Geoff Spaulding: 25:34
- Publishing
 Guide for Local Newsletters: 25:23
 Regional Newsletter 26: 24
- Sherman, Mark
 Draft Interim Recommendations: 24:52
- Skagit County
 Trail Guide to Talus Caves: 26:26
- Sneed, Joel M.
 The Caves of the Cheju-do, Korea: 26:15
- Sprague, Steve
 Pursuit of Wild Geese in Arlington Area: 25:07
 Trout Lake Camp: 26:77
- Talus Caves
 Excerpts from Robert W. Carrol: 25:62
 Large talus caves of the world: 25:05
- Temperature
 Temperatures in Windy Creek Cave: 26:75
- Tennessee
 DeMonbreum's Cave, TN: 25:16
- Thompson, Jerry
 Adventure at Windy Creek: 26:84
 Back to Washington Monument: 26:85
 Papoose Cave: 26:75
 Windy Creek Fast and Dirty: 26:85
- Timber Sale Planning: 26:54
- Tompkins, Ben
 Accident at Thanksgiving Cave: 25:43
 Another Mt. St. Helens Trip: 26:32
 Another Week at Bighorn Cave: 25:38
 Boy Scouts at Mt. St. Helens: 26:66
 Cave Management Symposium, 1985: 24:04
 Cave Rescue Planning Meeting: 26:04
 Guide for Local Newsletters: 25:23
 Little Red River Cave: 25:62
 More on Little Red River: 25:35
 New Battery Charger Circuit: 26:54
 Regional Newsletter: 26:24
 The Island Underground: 25:34
 Trip Report Ideas: 24:65
- U.S.G.S
 Cave names published on maps: 24:55
- Walter, Richard
 Fletcher Creek Cave: 26:33
- Weintraub, Boris
 Huge Caves Discovered in Belize Jungle: 25:03
- Whatcom County 26: 26
 Cave Register Evaluation: 26:56
- Whitfield, Phil
 Fletcher Creek Cave, 26:33
- Wilson, Mark
 The Northwest Regional: 26:14

THE FAR SIDE / GARY LARSON



"Crimony! ... I must've been tangled in some bimbo's hair for more than two hours."

