



# THE CASCADE CAVER

International Journal of  
Vulcanospeleology



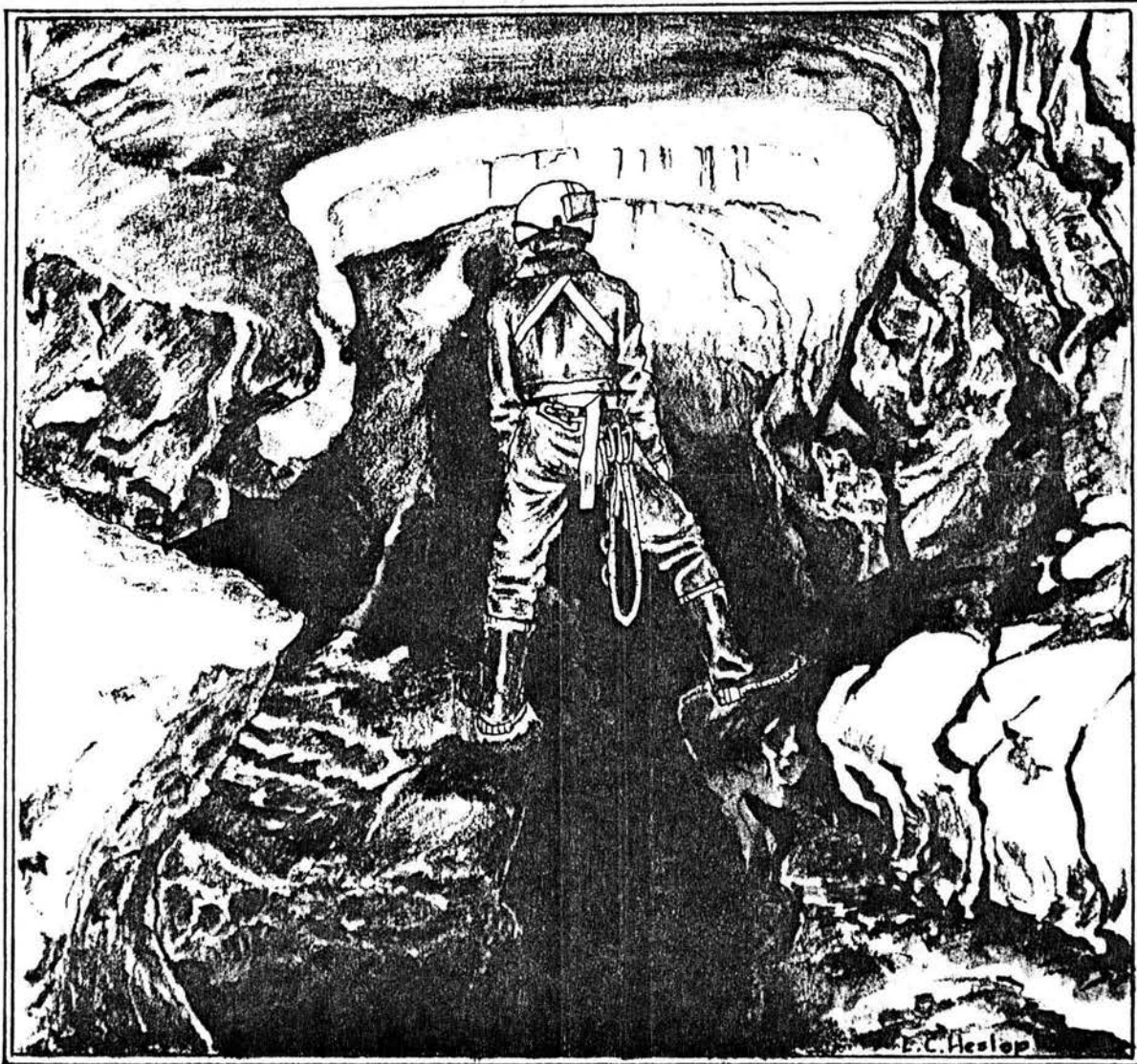
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Editor: Mark Sherman

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Assistant Editor: Ben Tompkins



Olivia Whitwell in Arch Cave. Photographed by Brian Bischoff, drawn by Linda Heslop

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C A S C A D E C A V E R

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The CASCADE CAVER is published 10 times a year by the Cascade Grotto, a member of the National Speleological Society.

Meetings: 7:00 pm on the third Tuesday of each month at the University of Washington, Room 006 in the basement of Johnson Hall.

Mail: The Cascade Grotto, P.O. Box 75663, Seattle, WA 98125-0663.

Dues: Membership in the Cascade Grotto plus subscription to the Cascade Caver are \$7.50 per year. Dues for family members is \$1.00. Subscription to the Cascade Caver only is \$7.50. Send to Grotto Treasurer, Al Lundberg, at: 19221 38th Place N.E., Seattle, WA 98155.

Officers:

|                |              |          |
|----------------|--------------|----------|
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| Vice Chairman: | Jeff Forbes  | 524-2443 |
| Sec/Treasurer: | Al Lundberg  | 365-7255 |
| Regional Rep:  | Ben Tompkins | 524-9526 |
| Grotto Store:  | Jim Harp     | 745-1010 |
| Editor:        | Mark Sherman | 524-8780 |

Cover: Linda Heslop's drawing this month shows Olivia Whitwell of VICEG in Arch Cave on Vancouver Island. We failed to give credit for last month's cover which was also drawn by Linda Heslop and showed Alysoun Lawrence of VICEG in Euclataws Cave.

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DUES

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Please note your mailing label for the month your dues expire. Whether from excessive sloth or extreme disinterest some of you have not paid in quite a while.

|            |                                |                          |                           |                               |                 |
|------------|--------------------------------|--------------------------|---------------------------|-------------------------------|-----------------|
| Dropped:   | Bosshart, W.<br>Richardson, J. | Brannon, D.<br>Riste, T. | Cebell, W.<br>Roberts, J. | Crawford, R.<br>Smith, Dr. F. | Ehli, L.        |
| Overdue:   | Fitchel, J.                    | Foord, A.                | Wilson, M.                | Rohrer, J.                    |                 |
| Coming up: | Gunsalus, J.                   | McTigue, L.              | Rockwell, J.              | Kiver, Dr. E.                 | van der Pas, J. |

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TABLE OF CONTENTS

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Grotto Information . . . . . 20  
Membership Dues . . . . . 20  
Upcoming Events . . . . . 21  
Meeting Notes . . . . . 21  
Letters to the Editor . . . . . 22

Grotto Book Library . . . . . 22  
A Guide for Newsletter Editors . . . . . 23  
Trout Lake Cave Trip . . . . . 23  
Mt. St. Helens Caves . . . . . 25

MEMBERSHIP HANDBOOK, Part 2

Constitution. . . . . 26  
Bylaws. . . . . 27  
Operating Policy . . . . . 28

How to get to the new meeting place . . . . 30

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UPCOMING EVENTS

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- June 17 G R O T T O M E E T I N G - The first meeting at University of Washington. It will be in Room 006 in the basement of Johnson Hall. See map later in this issue.
- June 22-28 NSS Convention, New Mexico. Contact Bob Brown for more information at 569-2724.
- July 15 Grotto meeting
- Aug Mapping on Cave Ridge. See Jeff Forbes for details.
- Aug 19 Grotto meeting
- Aug 24-Sep 1 Northwest Regional Association annual regional meet will be held at Thanksgiving Cave on Vancouver Island in conjunction with the Vancouver Island SPELEOFEST.
- Sept 13-14 McLaughlin Canyon

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MEETING NOTES - May 20, 1986

A report from Al Lundberg shows \$94.00 in the coffers.

Larry McTigue made a motion that the Chairman have the power to table any lengthy

discussions until after the program. This would allow those who are not interested in the business portion of the meeting to see the program and then leave. The motion passed. (Note: According to the suggested meeting schedule given in the Operating Policy, which

MEETING NOTES, continued.

happens to be reprinted in this very issue, I think the current Chairman is doing a miserable job of structuring the meetings. -Ed.)

Larry also suggested that the Chairman make a point of talking to any new people before the meeting and introducing them to the grotto.

Jan Roberts would like to have the Cascade Caver include more information in the Upcoming Trips section about such things as access to the cave, technical requirements including vertical experience needed, etc., so that people will get a better idea of what they would be getting themselves into.

Trip reports included Peter Carter's trip to Belize last January and Jeff Forbes' recent trip to Vancouver Island.

At the June meeting we will be having a biologist from the U.W. give a talk about work he has done in some Nevada and California caves.

LETTERS TO THE EDITOR

Dear Mr. Editor,

There have not been any letters to the editor lately. As one of the editors myself, I would be glad to include a "Letters" section any time there are letters to include. The Cascade Caver is probably not seen as a suitable forum for discussion but it could be a valuable one for those cavers who care about what goes on in this area and in the grotto itself and yet do not attend meetings for whatever reason.

I am writing this as a letter to help delineate my personal opinions from what I write as an editor and also as a test to see if any of the readers have responses or topics of their own which could be served in the letter-to-the-editor format.

I think that there are readers with opinions about things that Larry says in his article in this issue. I also see, as we reprint the Operating Policy this month, a number of sections that could stand some discussion.

1. I have seen no action on the Store Certificates or Caving Game in Section H in all the years I've been a member. Is this a legal necessity or is this deadwood.

2. Section K provides 40 copies of each Cascade Caver to Dr. Halliday for distribution. Indications are that the USGS, the NSS, and many of the exchange grottos have not been getting issues. Delivery of a newsletter is one of the primary indicators of caving activity to those outside of our immediate vicinity. Last year the Caver started including exchanges on its regular mailing list to give them the same reliability of delivery afforded to our regular members many of the exchange publications that I thought we were already serving signed up immediately. Without any other indication of where these issues are going I think 40% of our publication costs are wasted.

3. We are no longer meeting at 8 p.m. nor at Dr. Halliday's house as stated in Sect. N.

GROTTO LIBRARY  
by Larry McTigue

It was unanimously voted at the April Grotto meeting to create a permanent book library. I agreed to be the librarian and will store and check out the books and other materials contained in the collection. Materials from the library can only be checked out by current members of the Grotto who regularly attend the monthly Grotto meetings.

Donations are welcomed and encouraged! They are also tax deductible gifts. You can still check out the books that you have donated whenever you like so you have little to lose by sharing your books with other members. You can get a receipt for your donations from Alan Lundberg, Treasurer.

The Grotto library will also accept donations of aerial photographs, cave slides, cave photographs, stamps, postcards, pamphlets, brochures on commercial caves, newsletters from other grottos, and just about anything else pertaining to caves.

Any cave-related maps you have to contribute should be donated Grotto Map Library administered by Rod Crawford. I will be glad to include in the book library any maps that are not accepted by the map librarian. Contact Rod to donate or check out maps.

While we are on the subject, the Grotto Store administered by Jim Harp accepts donations of caving equipment, camping gear, helmets, lamps, slide projectors, battery

GROTTO LIBRARY, continued.

chargers, etc. Again, donations are tax-exempt.

The following is a list of titles currently in the library:

- "ADVENTURE IS UNDERGROUND",  
Halliday, Dr. William R., M.D.
- "AMATEUR'S GUIDE TO CAVES AND CAVING",  
McClurg, David R.
- "CAVE LIFE",  
Mohr, Charles E.
- "DARKNESS UNDER THE EARTH",  
Casteret, Norbert
- "EXPLORING AMERICAN CAVES",  
Folsom, Franklin
- "GAHR PARAU",  
Judson, David
- "LIFE OF THE CAVE",  
Mohr, Charles and Thomas L. Poulson
- "MY CAVES",  
Casteret, Norbert
- "TEN YEARS UNDER THE EARTH",  
Casteret, Norbert

Maps:

Windy Creek, Skagit County WA, 6 ea. color  
9"x9" aerial photographs

GUIDE FOR LOCAL NEWSLETTERS  
By Ben Tompkins

The NSS has just published a 22-page guide for editors of local newsletters which is also helpful for anyone trying to decide whether or not to begin publishing a newsletter. The guide is a collection of information, recommendations, and helpful hints by a large number of past and present newsletter editors. They cover a myriad of topics including why to have a newsletter, general content and style, how often to publish, how to get writers to write, various printing methods, page layout, mailing lists, copyrighting, and mailing costs.

Some of the ideas about what to print, how to encourage contributions of material, and how much to edit are excellent and I plan to give them some more thought and discussion.

The sections in the newsletter guide about the mechanics of publishing also contain a lot of valuable ideas. The process of putting out the Cascade Caver will probably not change and

the appearance of the printed page will change only slightly as a result of reading this guide. Although understandably biased, I think the Cascade Caver has a very clean and readable appearance. The changes that I will incorporate include: (a) Rearranging the second and third pages to put the table of contents and upcoming events where they will have the most visual impact. (b) More information about the grotto added to the second page (inside the front cover). This section was rearranged last issue before the newsletter guide arrived but we may want to add notices of copyright and permission to copy. (c) Wider margins but not offset as much as in the last issue. The new 15-character-per-inch print wheel requires less space to print the material so some of the savings can be put back in as whitespace where it will make things less cluttered and more readable.

In case anyone is interested here is a quick description of how the Cascade Caver is made.

All material that is not received on a floppy disk is retyped on a word processor and then all articles are collected in to one huge disk file. This file is first run through a spelling error checker and then through a formatting program. The formatter "pastes" the columns side by side then adds the page breaks, footers, page numbers, and continuation lines. The page format is as follows:

- Pitch: 15 characters per inch
- Font: Mini-Gothic-15 print wheel.
- Width: Full width columns 98 characters.  
Half width columns are 47 char.  
Center margin is 4 characters.
- Spacing: 6 lines per inch
- Left: 1.25" (19 characters) on odd pages  
0.75" (11 characters) on even pages.
- Top: 6 lines top of page to top of text.
- Footer: 2 lines bottom of text to footer.
- Bottom: 6 lines bottom of text to end of page

The results goes to a daisy-wheel printer with a mylar-carbon ribbon and is "published" on a copy machine. It's as easy as that.

TROUT LAKE CAVES  
by Larry McTigue

Rod Crawford and I headed south Friday

TROUT LAKE, continued.

morning, April 11, to do some caving near Trout Lake. After reaching the Columbia Gorge we turned north towards the eastern entrance of the Gifford Pinchot National Forest. But first we stopped near the town of Husum so Rod could get some spiders to add to his collection at the University of Washington.

He was delighted to discover a scorpion while hunting for spiders and said that it was the first one of its species ever found in this state. I was also turning over rocks looking spiders and under a rather large rock I discovered a rather large black spider. I called Rod over and he immediately identified it as a Black Widow.

While attempting to put it in one of his collecting vials Rod got some of the spider's silk threads stuck to his fingers with the spider dangling at the other end. The Black Widow immediately began climbing the strand and got within a few inches of his bare fingers before Rod managed to lower both thread and spider onto a rock. The spider crawled off harmlessly around the rock and Rod was more safely able to collect it. Whew! That was a close one!

Our first caving stop was JaR Cave which was explored and mapped recently by the Oregon Grotto. This cave is very sensitive being one of the few in Washington containing large fragile lava stalagmites. The largest stalagmite is over 3 feet tall and located in the center of the passage in a medium sized room. There are many others that are 1 to 2 feet high and it would be very easy for someone to kick them over since they are only a few inches thick.

I think that it is important when writing trip reports or publishing information about delicate caves that we not reveal their location in any more detail than perhaps which county they are in. Obviously, sharing such information with fellow cavers is expected but with outsiders it should be strongly discouraged. Exceptions might include close friends or associates in whom we have complete trust but even then we should use caution and impress on them that once these unique formations are broken they can never be replaced. Now off the soap-box and back to the trip.

JaR Cave was very interesting. It has over 2500 feet of passage, two lava falls, and

an upper-level passage about 500 feet long that crosses over the main passage. It also has several side passages one of which is a low crawlway that forms a complete loop. This is a two-level maze cave similar to Deadhorse Cave but not quite as extensive.

Our next stop was Ice Cave. The road to the cave was still snowed in and we had to hike in over snow that was still a couple feet deep. The ice speleothems were nice to see but the pool of ice in the rear of the cave wasn't quite solid. I managed to break through at a most inopportune time and took a fall which gained me some bad bruises and wet feet.

Undaunted by this mishap, I proceeded to climb along the edge of the pool to the ice slide at the rear of the cave while Rod waited for me on the other side. Finding the slide sufficiently frozen, I gleefully slid down into the small ice-floored room below. At the back of this room I made my way up another ice slide which lead to the upper sections of the terminal chamber. Satisfying myself that no other leads were penetrable, I returned the way I came in.

We hiked back to the truck and made camp there. During the night it began to snow and by 4 a.m. the main road was covered. I had my chains with me but luckily the sun came out and quickly melted the inch or so of snow on the road.

Saturday continued to be mostly sunny with a few short rain showers. We drove down to New Cave which appears to be a hangout of the local high school kids. Several hundred feet of the main passage has been completely covered with graffiti all over the walls and ceiling. So many thousands of names have been carved into the walls that I didn't bother to take more than a brief glance at them as we hurried along the 3,000 feet or so of the eastern section of the cave. The dates next to the names indicate a span of 20 years or more but there were many from 1985 which indicates that this destruction will continue and probably escalate, spreading to other Trout Lake caves as they become known to local youth.

Again, I think we must avoid publishing the locations of caves such as JaR Cave and be equally careful what we say when talking to others. New Cave is to Trout Lake as Ape Cave is to Mt. St. Helens. They are extensive cave systems known to the locals for a long time and both heavily vandalized. The conservation

## TROUT LAKE, continued.

pamphlets that we've put in the register in New Cave have done little to stop the vandalism there and we don't have the time, the means, nor the manpower to do much else. The only solution that I can see is to not reveal cave locations except to trusted fellow cavers. Now back off my soap-box again.

Our next stop was Poacher's Cave which is the upper part of the Red Cave System. Snow on the road again forced us to approach the cave on foot. We then drove to Butter Cave and got within 1000 feet before the snow was too deep for my truck. We were treated to a spectacular display of ice speleothems in the entrance and rear sections of the cave. I wished I had brought my camera. They were much better than the ones we saw the day before at Ice Cave.

Exiting and continuing up the road, we took the fork that leads to Madison's Fence Cave. By now we were running short of time so we went to Snowpatch Cave instead. I had had the impression that Snowpatch Cave was a small shelter cave of little significance but actually it is a good-sized lava tube and definitely worth a visit. It rounded out a very pleasant two days of caving at Trout Lake.

## MT. ST. HELENS TRIP REPORT

By Jim Harp

Friday, March 21, 1986, Jerry Thompson, my son Ryan, and I left Everett about 5 pm in Jerry's Campervan. In Cougar we found the camping facilities still locked up for the winter so we went on to the Ape Cave parking lot and spent the night there.

The next morning we were up early and walked out onto the mudflows resulting from the eruption of May 18, 1980. On the way back we noticed Bill Halliday's mudflow survey station #36.

Driving to Ole's Cave, we found a gate across the access road. We parked and as we prepared for the hour or so hike several car loads of Boy Scouts arrived. Their leaders informed us that they would be setting up camp and searching for Ole's Cave. We wished them luck and headed out.

Following directions supplied by Rod

Crawford we found the upper entrance to the cave with no trouble. The lava flow area was well marked with flagging of many colors criss-crossing here and there and leading to just about any place on the lava flow that you might want to go. There was even duct tape on the trees marking the way to the cave although the path was so worn and strewn with beer cans that you could feel your way blindfolded without losing the path. A great pile of duct tape flags greeted us at the main entrance, probably removed from the trail to fool the blindfolded, beer drinking, would-be cavers.

We entered the 5500 foot main passage through the first and largest of its five entrances. Down slope from this entrance is about 500 feet of unimpressive lava tube, mostly breakdown and it terminates in breakdown. Proceeding upslope we soon encountered the lava formation resembling a profile of George Washington's face.

Proceeding past the concentric circles of splash rings in the floor we climbed 15 feet up into the stalactite chamber. These formations are very light colored, having a calcareous appearance quite out of place in a lava tube. We headed back towards the main entrance after emerging from the fourth entrance but soon lost track of the flagging and continued overland using a compass.

While standing next to the main entrance in all of our caving gear one of the Scout leaders came hiking up and asked if we had found the cave. He puffed off down the trail and soon returned with three teen-age boys. As they proceeded into the cave we proceeded off across the flow on a compass bearing for Beaver Cave and found it right where we were told to look.

Beaver Cave goes in two directions from the breakdown entrance. About 20 minutes down slope the tube dropped 20 feet straight down and then leveled off. We turned around at that point not wanting to attempt the vertical pitch without a belay rope. Going back the other way we passed the entrance but were soon stopped by a lava tongue which almost reached the roof.

Reaching the entrance again we encountered three beer-drinking teens preparing to enter so we started home to the van picking up trash and beer cans along the way. That night was spent in the Lava Cast Picnic Area and we returned home in the morning.

## MEMBERSHIP HANDBOOK, Part 2

Time for another installment of the surrogate Membership Handbook. Although it was not labelled as such, Part 1 is the membership directory printed last month. Part 2 includes the Constitution, Bylaws, and Operating Policy.

We did not have a copy of the constitution to print last year at this time. Since then two versions were received from the NSS files and one from Rod Crawford. Rod's is the most current version and is the one printed here.

### CONSTITUTION OF THE CASCADE GROTTO of the National Speleological Society, Inc.

I. The name of this organization shall be the Cascade Grotto of the National Speleological Society.

II. The purposes of this grotto shall be: to promote interest in and to advance in any and all ways the study and science of speleology, the protection of caves and their natural contents, and to promote fellowship among those interested therein. This grotto shall have the additional object of organizing the members of the National Speleological Society in the Pacific Northwest into a group to better promote these purposes.

Section 2. This organization is organized exclusively for religious, charitable, scientific, literary, or educational purposes within the meaning of Section 501(c)(3) of the Internal Revenue Code. Notwithstanding any other provision of these articles, the organization shall not carry on any other activities not permitted to be carried on by an organization exempt from Federal Income Tax under Sec. 501(c)(3) of the Internal Revenue Code.

III. The entire management and government of this grotto except as otherwise expressly provided shall be vested with the membership.

Section 2. The officers of the grotto shall be: Chairman, Vice-Chairman, and Secretary-Treasurer, elected yearly by the membership. Their duties shall be those usually associated with each office.

Section 3. The membership shall have complete power to manage the grotto, to make rules relating to subsequent elections, to formulate by-laws, to appoint chairmen of special committees, to raise funds in any manner not inconsistent with the policies of the Board of Governors of the NSS, and to perform all other necessary functions.

IV. General meetings of the grotto shall be held at such times and places as are determined by the membership. The chairman of the grotto shall have the power to call special business meetings whenever necessary but first must obtain the consent of a majority of the voting members.

V. Membership is open to all persons in the Pacific Northwest interested in the grotto's purposes, who have complied with conditions of membership set forth in the By-laws.

Section 2. Only members with their grotto dues paid shall have voting rights in the election officers or at meetings.

VI. The constitution and by-laws of the NSS shall be binding on this grotto. Any action inconsistent therewith shall be null and void.



CONSTITUTION, continued.

- VII. Any property held by this grotto shall revert to the NSS in the event of dissolution of the grotto.

BYLAWS

- I. The Cascade Grotto shall have five classes of membership:

Section 1. Regular members shall be those persons who have signified their desire to become members, have paid current dues, live in the Pacific Northwest, and are not voting members of other grottos of the NSS in the Pacific Northwest or other units of the Northwest Regional Association. Regular members receive all Grotto publications and are entitled to vote on all pertinent matters.

Section 2. Family members are relatives of a regular member, live at the same address, and have paid current dues. Family members receive no publications but those over 15 years of age are entitled to vote on all pertinent matters.

Section 3. Subscribing members are persons who have paid the current subscription rate for Grotto publications but who do not desire to be active participants in Grotto activities. Subscribing members receive all Grotto publications but are not entitled to vote on any Grotto matter.

Section 4. Associate members shall be those persons who have signified their desire to participate in Grotto activities but either live outside the Pacific Northwest, or are voting members of other grottos of the NSS in the Pacific Northwest, or other units of the Northwest Regional Association. Upon payment of current dues, associate members receive all Grotto publications, are encouraged to attend all Grotto activities, but are not entitled to vote.

Section 5. Honorary members shall be those persons elected to lifetime memberships in recognition of outstanding services or achievements. No more than one Honorary member may be elected in any one year. Honorary members pay no dues, receive all Grotto publications free for one year, and are entitled to vote on all pertinent matters.

- II. All Grotto dues shall be paid at the time of beginning membership and shall be renewable one year later. Dues for regular and associate members shall be \$7.50 per year. Subscription rate for Grotto publications shall be \$7.50 for one year's issues. Dues for family members shall be \$1.00 per year.

- III. Nominations for Grotto officers shall be made at the November general meeting; such nominations must be made by a Grotto member with voting rights. The Secretary-Treasurer will mail to each member with voting rights a ballot prior to the 10th day of December. The ballot must be returned to the Secretary-Treasurer no later than December 31st. The Secretary-Treasurer will tally the vote and notify both present and newly elected officers of the results. Newly elected Grotto officers shall take office on the tenth day of January following the election.

- IV. A simple majority of voting members present shall prevail at general or special Grotto meetings. Approval of amendments to the bylaws or the Grotto constitution, or expulsion of a member shall require a 2/3 favorable vote of those voting after due notification to the Grotto membership; due notification being 30 days written notice. For the purpose of a 2/3 vote, those voting shall include members present, mail and proxy ballots received by the

BYLAWS, continued.

first meeting after due notice.

OPERATING POLICY

- A. Duties and responsibilities of the Chairman:
- a. Appoints all committee chairmen and Cascade Caver Editor.
  - b. Chairs Grotto and special business meetings. Rules on points of order and in case of tie votes, casts deciding vote. Chairman has the right to vote on all money matters and on any matter requiring a 2/3 vote.
- B. Duties and responsibilities of the Vice-Chairman:
- a. Assumes Chairman's duties when he is absent.
  - b. Represents the Grotto, or ensures that the Grotto is represented at the Congress of Grottos.
  - c. Conducts all other duties usually associated with this office.
- C. Duties and responsibilities of the Secretary-Treasurer:
- a. Maintains Grotto Financial records.
  - b. Collects Grotto dues as per Article 2 of the bylaws.
  - c. Maintains Grotto funds in an interest-bearing account.
  - d. Maintains current membership records.
  - e. Provides the Cascade Caver editor with a current membership list by April 15 of each year for printing in the May Cascade Caver.
  - f. Submits a financial report to the Grotto four times per year, in January, April, July, and October.
  - g. Dispenses Grotto funds at the direction of the Chairman after approval of the membership. Approval of the membership in the case of fund dispersal only requires a simple majority of those present and voting at any regular Grotto meeting.
  - h. Conducts duties as outlined in Article 3 of the bylaws.
  - i. Prepares the Annual Report of the Grotto and submits it to the NSS.
  - j. Assumes Chairman's and Vice-chairman's duties when both are absent.
- D. Duties and responsibilities of the Cascade Caver editor:
- a. Publish a good quality Grotto publication (at least six pages) ten times per year. This publication should contain but is not limited to the following: field trip reports, all new members as they join the Grotto (names, addresses, and phone numbers), all business acted upon at Grotto, special business, or unit meetings, and other articles or information of interest to the membership.
  - b. It shall be the responsibility of the Editor to see that the Cascade Caver is mailed by the Wednesday before the regular monthly meeting.
  - c. A current membership list must be printed in the May issue of the Cascade Caver and must be current as of April 15 of that year.
  - d. All Grotto printing supplies and equipment are the responsibility of the editor.
  - e. The Editor must provide the Secretary-Treasurer with a record of Cascade Caver expenses in January and September of each year.
  - f. It shall be Grotto policy and the Editor's responsibility to make sure that no sensitive wild cave locations are printed in the Cascade Caver
  - g. It shall be Grotto policy and the Editor's responsibility to make sure that no material of a speleo-political nature is printed in the Cascade Caver without approval of the Grotto membership.
  - h. The Editor has the authority to make minor changes and deletions in any material submitted, or to refuse publication, for reasons of quality or Grotto policy. The Editor has final authority over the contents of the Cascade Caver, subject only to his removal by the Grotto membership.

OPERATING POLICY, continued.

- E. It is understood that the officers of the Grotto and the Editor of the Cascade Caver, in order to fulfill their duties and responsibilities, need the support and cooperation of the membership. It shall be their responsibility to delegate such duties as they are unable to fulfill personally.
- F. The Program Committee chairman shall be allotted 45 minutes of the Grotto meeting time. It will be his responsibility to provide a good quality program of at least NSS visual aid quality. The 8:15 to 9:00 time period will be scheduled to the program chairman.
- G. It shall be Grotto policy to operate a Grotto Store, the purpose of which shall be the sale and rental of caving equipment. The Grotto store shall be managed by a storekeeper appointed by the Grotto membership. The Storekeeper has complete authority to manage the store subject only to his removal by the Grotto membership. Any net profit from the sale or rental of equipment shall be distributed as per item H.
- H. In order to raise funds for the purchase of merchandise for the store, the storekeeper is authorized to sell "Store Certificates." Only Cascade Grotto members may be certificate holders. Net profit from the store shall be distributed in the following manner:

|                                     |                               |
|-------------------------------------|-------------------------------|
| 20% to certificate holder dividends | 40% reinvestment in the store |
| 20% to certificate buy-back fund    | 20% to Grotto treasury        |

In addition, the storekeeper shall sell "Game Certificates" to finance the production of "The Caving Game." Only Cascade Grotto members may be Game Certificate holders. Net profit from the sale of games after paying costs shall be distributed as follows:

|  |                        |
|--|------------------------|
| 50% to Carlene Allred                    | 25% to Grotto treasury |
| 25% to Game Certificate holder dividends |                        |

- I. The Grotto shall have a Cave Resources Committee. Its duties shall be to maintain a file of Washington unchecked cave rumors and topographic maps for the use of Grotto members. Policies for the loan of topographic maps shall be set by the committee.
- J. It shall be the responsibility of the Chairman to ensure that the duties usually associated with the following committee positions are accomplished. Normally in order to achieve this the Chairman will appoint committee chairmen:

|                               |  |
|-------------------------------|--|
| a. Membership Committee       | h. Safety Committee                      |
| b. Equipment Rental Committee | i. Cave Register and Information Program |
| c. Grotto Storekeeper         | j. NWRA Regional Representative          |
| d. Program Committee          | k. Visual Aids Committee                 |
| e. Cave Resources Committee   | l. Fund raising Committee                |
| f. Field Trip Coordinator     | m. Cascade Caver Editor                  |
| g. Conservation Committee     |  |

- K. It shall be Grotto policy to supply Dr. W. R. Halliday with forty (40) copies of each issue of the Cascade Caver for exchange purposes and for non-paid NSS and USGS distribution. Grotto members shall have access to the resulting exchange library.
- L. It shall be Grotto policy to maintain a regular membership of 40 cavers in order to provide a level of activity and finances for a healthy Grotto. In order to achieve and maintain this

OPERATING POLICY, continued.

number of regular members, the Grotto will actively seek out NSS members and active non-NSS cavers living in the state of Washington, who do not belong to another NSS grotto.

M. Realizing that at present NSS cavers only represent at most 30% of those caving, it shall be Grotto policy to have one or two invitational meetings per year while Grotto membership is less than 40 members. This is intended to make persons interested in cave explorations aware of our Grotto's goals and objectives.

N. Grotto meetings will be held at 1117 - 36th Ave. E., Seattle, on the third Tuesday of each month, and will start at 8:00 PM. Grotto meetings will normally follow the format listed below:

- 8:00 to 8:15 Introductions and old business
- 8:15 to 9:00 Scheduled program
- 9:00 to 9:20 Field trip reports
- 9:20 to 9:40 New business and committee reports
- 9:40 to adjournment Field trip planning

The above format is not intended to be inflexible but is meant as a guideline. This format is intended to ensure time for a good quality program and time to discuss business, field trip planning, and field trip reports.

O. All NSS members and non-NSS cavers are welcome at Grotto meetings as long as they are not and have not been disruptive or defamatory toward caving, cavers, or speleological organizations.

P. To encourage activity among widely separated members while ensuring Grotto unity, Grotto members outside the Seattle area shall be authorized to form local units within the State of Washington, when chartered by the Grotto membership. Local unit meetings shall be chaired by a Unit Coordinator elected by those Grotto members participating in that unit's activities. Local units shall be authorized to conduct any business on behalf of the Grotto, so long as they comply with the Grotto constitution, By-laws, and Operating Policy. However, business affecting the the entire Grotto may only be acted on at a regular Grotto meeting as per Item N above.

Q. Changes in these Operating Policies may be enacted by majority vote at any regular Grotto meeting.

Don't forget the new  
Meeting place !

