

A Guide to Responsible Caving

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A Guide to Responsible Caving

National Speleological Society
2813 Cave Avenue
Huntsville, AL 35810
256-852-1300 nss@caves.org
www.caves.org



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Text: Cheryl Jones
Design: Mike Dale/Switchback Design
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FOREWORD

We explore caves for many reasons, but mainly for sport or scientific study. The sport caver has been known as a spelunker, but most cave explorers prefer to be called cavers. Speleology is the scientific study of the cave environment. One who studies caves and their environments is referred to as a speleologist.

This publication deals primarily with caves and the sport of caving. Cave exploring is becoming increasingly popular in all areas of the world. The increase in visits into the underground world is having a detrimental effect on caves and relations with cave owners.

There are many proper and safe caving methods. Included here is only an introduction to caves and caving, but one that will help you become a safe and responsible caver. Our common interests in caving, cave preservation and cave conservation are the primary reasons for the National Speleological Society. Whether you are a beginner or an experienced caver, we hope the guidelines in this booklet will be a useful tool for remembering the basics which are so essential to help preserve the cave environment, to strengthen cave owner relations with the caving community, and to make your visit to caves a safe and enjoyable one.

This is the fourth and completely revised edition of my original booklet, *A Guide to Responsible Caving*. A special thank you to my fellow cavers for their hard work and dedication: Cheryl Jones and for revising and editing this publication, and Michael Dale for the design and layout work.

Adrian (Ed) Sira NSS 11904 FE



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A black and white photograph of a person rappelling down a rope in a cave opening. The person is silhouetted against the bright light coming from above. The cave walls are dark and textured, and the rope is a vertical line on the right side of the frame.

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GOING CAVING?

Introduction

Whether you are a beginner or an experienced caver, these guidelines will introduce you to the basics of responsible caving. Responsible caving helps preserve the cave environment, strengthen caver-landowner relations, and make your visit to a cave a safe one.

This booklet describes how to take care of the cave and how to take care of yourself and your partners. Although proper and safe caving practices are discussed, this discussion is no substitute for personal instruction by a competent caver.

Tolerating misery

Do you really want to go caving? If so, ask yourself why. Caving is not a spectator sport, and it tends to be cold and muddy. Tight passages and long crawls are not uncommon. Dangers include falling down pits, being crushed by falling rocks, drowning, and hypothermia. And then there is the possibility of getting lost and quickly dying of hypothermia or slowly starving to death. But for people trained to cave safely, the rewards are worth the misery and risks.

Why people visit caves

People visit caves for many reasons, but mainly for pleasure or science. Non-cavers may know cavers as spelunkers, but most responsible visitors to caves prefer to be called "cavers." Speleology is the scientific study of the cave environment, and one who studies caves is a speleologist.

What do cavers do underground? They enjoy the adventure of searching for new passages or seeing places hidden from view. They survey the caves and make maps, they study the geology and biology, and they clean up caves and repair broken formations. The knowledge they gain helps environmental and land-use planning.

Responsibility

You and your partners are responsible for protecting yourselves, other cavers, and the caves you visit. We're all in this together. You don't want your actions to cause other cavers to remember you as "that caver who got killed" or "that caver who was careless and trashed formations." Being a responsible caver involves planning a trip, moving through the cave safely, and returning on time.

INSIDE A CAVE

Formation of caves

A cave is a natural void under the earth's surface, and most caves are formed in soluble rock, usually limestone. A solution cave is formed when rock is dissolved by slightly acidic water. Terrains that show evidence of solutional caves are called "karst." Caves are also formed in lava by volcanic processes, and these caves are called "lava tubes."

Characteristics of caves

Some caves have passages that extend for many miles, but most caves are much shorter. Many caves are damp and muddy, although some are dry and dusty. Caves may contain walking-sized passages, crawlways, constrictions, or tall narrow canyons. Often they contain streams, lakes, waterfalls, pits, or domed ceilings, and some caves are subject to flash flooding.

Water has sculpted the rock walls, rocks have fallen from ceilings and walls to form piles of breakdown, and streams have left mud or sand along their banks. Floors can be muddy, sandy, rocky, or gravelly.

The temperature of most caves is the long-term average of the surface temperatures above the cave. Therefore, caves closer to the equator are warmer than caves farther from the equator, and those in lowlands are warmer than those in the mountains.



Speleothems

Water containing dissolved minerals seeps through the rock, creating formations, or *speleothems*, on the floors, ceilings, and walls of caves. Most often these speleothems are composed of crystals of calcite or gypsum, but they often incorporate other minerals that provide color. Speleothems include stalactites, stalagmites, helictites, draperies, pearls, flowstone, rimstone, and columns. Speleothems grow slowly, sometimes for thousands of years, and because of changes in weather or surface drainage, some are no longer growing at all.

A single careless touch or malicious gesture can destroy what may have taken hundreds, or even thousands of years to form, and once damaged or destroyed, speleothems may not regenerate at all. Mud from a caver's glove or boot can remain forever as an ugly stain.

Take special care to avoid damaging speleothems. Remain on established trails in a cave, be careful where you place your hands and feet, and keep your helmet away from speleothems on the ceiling. Only by caving responsibly can we protect and preserve irreplaceable speleothems.

CAVE LIFE

Caves afford transitory or permanent sanctuary for a range of organisms. The variety of life in a cave is small and the ecosystem is far more fragile than most of those on the surface. Avoid disturbing a cave's inhabitants, and treat them with respect.

Troglobites

Cave-dwelling organisms that spend their entire lives underground are called "troglobites." Some troglobites have no skin pigment and are blind. Troglobites include fish, salamanders, crayfish, insects, and spiders. They are specially adapted to living in darkness, and they offer biologists insight into biological processes, such as evolution. Troglobites cannot live outside a cave, and their survival may be threatened if the cave environment is damaged or altered. Water pollution, visitor traffic, trash, flooding, and a change in air patterns and temperature contribute to disturbing a cave's fragile food web and ecosystem. Once destroyed, there is little chance that these ecosystems would regenerate, and unique troglobites would be gone forever.

Trogloxenes

Animals that make their homes in caves, but return to the surface to feed including bears, packrats, snakes, raccoons, swallows, moths, and foxes are called "trogloxenes."

Bats

Bats are troglloxenes too, and they play important roles in both cave and surface ecosystems. Most bat species are insect eaters, and bats can eat half their body weight in insects each night.

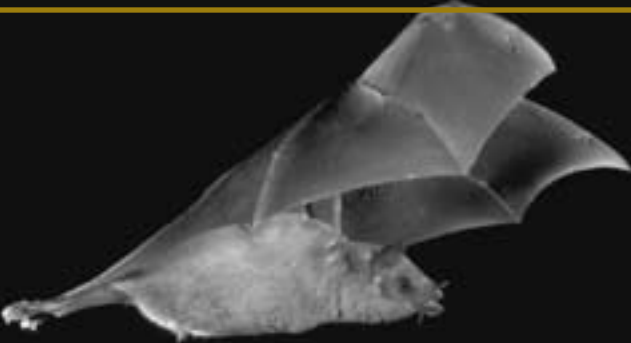
You like bananas, cashews, mangos, and figs? Bats are also important pollinators of night-blooming plants, including these commercial fruits, not to mention eucalyptus and balsa. Fruit-, pollen-, and nectar-eating bats are essential to the survival of the rain forests through pollination and seed dispersal.

At some point in their life cycles, $\frac{2}{3}$ of the 46 species of bat in the United States use caves, or cave-like structures, such as abandoned mines. Inside caves, bats give birth and rear their young in the summer and hibernate in the winter. Human interference has forced bats to abandon their homes for less suitable roosts, causing declines in bat populations.

Conscientious cavers avoid important bat caves in the winter to protect hibernating bats, and in the summer to protect mothers and young. Some of these caves are identified by signs at their entrances.

Extremophiles

Biologists have discovered cave-dwelling *extremophiles* whose food web is based on *chemosynthetic*, or mineral-"eating" bacteria. These organisms offer clues about the earliest forms of life on Earth.



PROTECTING CAVES

Wilderness

Caves are the world's most remote and fragile wildernesses. They provide irreplaceable habitat for rare species.

Drinking water

Caves play a vital role in the quality of our drinking water. In karst and lava areas, surface water flows into caves quickly, after little filtration from their characteristically thin soil layers. This water and the pollutants it carries — human and animal waste, agricultural chemicals, petroleum products, and other contaminants — can travel great distances underground into wells, springs, and aquifers. These contaminants may pollute water that you end up drinking.

Archaeology

Since prehistoric times, caves have served as homes, burial grounds, and religious sites. Unlike most other environments, the nearly constant temperature and humidity of a cave can preserve some of our most sensitive archaeological and cultural sites for millennia.

Modern threats

Many caves have existed for hundreds of thousands of years, but increasing land development has brought new threats to caves, including pollution, quarrying, closure and vandalism. Unfortunately, caves are threatened by human activities above and below the surface. Carelessness and ignorance, as well as intentional vandalism, can quickly damage a cave and its contents forever. A reward is offered by the National Speleological Society for information leading to the conviction of cave vandals anywhere in the United States.

Vandalism

Most states have laws against damaging a cave or its contents, and on federal land, such damage violates the Federal Cave Protection Act. In addition, if you buy speleothems, you help create a market that encourages both their collection and their destruction. Collecting even broken formations encourages others to collect unbroken ones. Don't be a vandal or encourage them.

Sharing cave locations

Do not reveal the location of caves to people whose regard for caves might result in harm. In this way you are responsible for protecting both the cave and people you meet who do not understand that special skills and equipment are needed to travel through a cave. Causing an increase in casual visitors to wild caves (by geocaching or posting locations on Web sites, for example) is misusing cave location information. This leads to vandalism and degradation of caves, and can upset landowners, causing them to close their caves.



CAVING COURTESY

Landowner relations

Good relationships between cavers and landowners are an essential part of visiting caves, and maintaining these relationships is a key element of responsible caving. Sadly, many landowners now prohibit people from entering their caves as a result of inconsiderate actions by cave visitors, and others have placed locked gates on their caves.

Observe these fundamental courtesies to receive permission to enter caves, to be welcomed as a guest in the future, and to keep caves open for other cavers.

Permission

Before entering a cave on private land, obtain the owner's permission; that's what you'd want people to do if you were the landowner. A local caver or members of an NSS grotto can probably help you make the proper contact.

Manners

Introduce yourself and the cavers with you to the cave owners. Spend some time chatting; you may need to persuade them that you are competent, conscientious cavers. Ask where you may park, and the route the landowner wants you to use to walk across his property. Thank the landowners for their hospitality. Visit them again after returning from their cave, unless it is after dark. Be quiet, especially at night.

Open or closed, leave gates as you find them. Use gates, and avoid climbing fences. If you must climb over a fence, climb near a strong post.

Avoid disturbing livestock and walking across a planted field. Replace barriers that were placed at the cave entrance to keep livestock from falling in.

Many owners have never ventured into their caves, so they often appreciate copies of photos and maps showing what lies beneath their land.

You may meet owners who flatly will not allow you into their caves. In that case, thank them for their time and leave.

Discretion

If you change clothes before or after your cave trip, find a private, sheltered spot.

Leave no trace

Leave the cave and the surface cleaner than you found it. Cause no damage to the landscape or property.

Public land

Although some caves controlled by public agencies may be entered without prior permission, some require a permit. Contact the agency in advance to learn what is necessary to enter a cave, and allow time for a response.

Safety

Getting injured is no way to have fun, and caves are unforgiving of cavers who are careless or unprepared. However, if you are properly equipped and have the proper attitude and training, caving can be safe. Generally, caving accidents result from lack of experience or poor judgment. Poor judgment includes using improper or unfamiliar equipment, and lack of experience includes overextending yourself mentally or physically, which can lead to fatigue or hypothermia.

Beware of unpredictable situations, such as loose rocks and crumbling ledges, which have been known to cause injuries and fatalities in caves. Spare parts, including batteries and bulbs, are necessary for each light.



WHAT TO BRING

Getting equipped

Every caving trip requires the same basic equipment and supplies. However, equipment for a safe and comfortable trip may differ from that listed here, depending on the cave. To learn what is appropriate, ask your trip leader, or ask a caver who is familiar with caves in the area where you are planning your trip.

Lights

Carry at least three independent sources of light per person. Mount the primary light on your helmet, so that you automatically have light wherever you turn your head and your hands are free to climb safely. The second and third light sources must be adequate to use as a primary source, and fit on your helmet. Spare parts, including batteries and bulbs, are necessary components of each source of light. Lights that use light-emitting diodes (LEDs) are now so inexpensive, small, and energy efficient, that their advantages outweigh lights using incandescent bulbs. Candles and glow sticks have never been reliable or even adequate sources of light.

Helmet

Wear a helmet that meets standards of the *Union Internationale des Associations d'Alpinisme* (UIAA) or of the European Committee for Standardization ("CE") equivalent, and buckle the chin strap. Your helmet provides critical protection for your head, and offers a mount for your lights.

Other equipment

Depending on the cave and the trip, cavers also find these items useful underground:

- Gloves to keep your hands warm and minimize cuts and scrapes. Gardening or thick rubber gloves are generally adequate.
- A large, plastic trash bag, carried in your helmet. Wearing this bag can help prevent hypothermia, or it can keep you dry.
- Knee pads and elbow pads.
- Food sufficient for the length of the trip, and an extra amount in case the trip takes longer than expected.
- Drinking water.
- A durable container for human wastes. Pack it in, pack it out.
- A small, strong, lightweight pack, preferably made from a fabric that does not absorb water. Placing items in waterproof containers before placing them in the pack will help keep them dry.

Clothes and comfort

Caves tend to be cold, so dress warmly. Wet clothes keep you colder than dry clothes, so avoid getting wet. Except in the driest, warmest caves, avoid wearing cotton clothing, because it absorbs and retains more water than synthetic fabrics. Polypropylene, nylon, and polyester tend to be more abrasion-resistant, absorb less water, dry more quickly, and retain heat better than natural fabrics.

Dress for success

Dress for the expected environment in the cave. Wear sturdy boots with lug soles to protect your feet and grip securely on rocks and mud. Dress in layers of clothing in all but the warmest caves, so you can adjust your temperature. For any caving trip, the outer layer needs to be able to withstand the abrasive and sharp rocks of a cave. Some caves are so cold and wet that they require special clothing. Do not attempt these caves without training.



HOW TO BEHAVE ABOVE GROUND

Contingencies

From the local NSS grotto (caving club), learn the telephone number to call when a cave rescue is necessary. Carry this number with you in the cave, leave a copy in the car and with someone who knows your caving plans. If instructions are to dial 911, the dispatcher should be told there is an emergency requiring a cave rescue-trained team. Cave rescue is technical and difficult, and requires special equipment, training, and skills.

Top cover

Notify a reliable person about your caving plans, including the name and location of the cave you are visiting, and your estimated time of return (allowing time for unanticipated delays). Agree what to do if you do not return on time.

If you exit the cave after your estimated exit time, contact your top cover as soon as possible to prevent an unnecessary rescue. Rescues result in bad publicity for cavers and for caving in general, and they may alienate cave owners and cause them to close their caves. An unnecessary rescue wastes the time and resources of many dedicated volunteers.

Landowner education

Educate landowners about the value of their caves. Specifically, point out how polluting a cave can affect their groundwater, and explain how anything dumped in a sinkhole can damage underground ecosystems. Make them aware of the biological, historical, prehistorical, and aesthetic value of their caves. To help you with this, the NSS offers brochures on its Web site that you may give to landowners. Refer to Caving Courtesy on page 11 for more guidelines for landowner relations.

Protect caves by protecting the surface

Just as you maintain underground resources by packing out your own trash and that of others, keep sinkholes free of rubbish. Even though you may not see a cave entrance, trash (including dead animals) dumped in a sinkhole can enter and harm a cave ecosystem. It can also pollute the water that drains to underground streams and natural reservoirs that supply people's drinking water. Keep surface areas near entrances free of sources of pollution.

Before entering a cave

When you might be tempted to cut corners on gear, preparation, or training, ask yourself how much your life is worth. If you cannot afford the proper equipment, then you cannot afford to go caving.

- Obtain as much information as possible about the cave before you enter.
- Confirm that your equipment is appropriate for the cave.
- Check that your lights work as they should, and that you have packed fresh, spare batteries.
- Ensure that the cave and the trip you anticipate do not exceed your experience level, your equipment, your preparation, or your ability.
- Have a plan for the trip, and know what to do if something goes wrong.
- Plan to head out of the cave when you have consumed no more than one third of the batteries for your primary light. In general, exiting takes longer than entering, and your trip out of the cave will tire you more than the trip in. Plan to exit the cave with at least one third of your primary light's batteries unspent.
- Know how your equipment works. Do not plan on figuring out your gear underground.



HOW TO BEHAVE UNDERGROUND

Teamwork

Responsible caving is a team activity and not a competition. Responsible cavers think and act as a unit underground to ensure a safe trip. The actions or attitude of a single member can jeopardize the safety of the whole team, resulting in injury or death.

Move only as fast as the team's slowest member. Stop periodically for a rest, a drink of water, and perhaps a snack. Stay in voice contact with your teammates. After negotiating a tricky obstacle, remain there until the next team member arrives, and offer help. Do not be reluctant to offer, ask for, or accept help.

Teams larger than six tend to be slow and difficult to manage, so divide a larger group of cavers into separate teams. In the event of an accident, one person on a team of four can stay with the injured person, and two can go for help. That way no one is caving alone.

Pack it in, pack it out!

Do not leave trash, food, batteries, or any other waste in the cave. Most caving trips are short enough that you can avoid relieving yourself underground. However, when you must relieve yourself, do so in an appropriate container or containers, and remove the waste from the cave. Not doing so forces the next caver to encounter it; even more importantly, your waste can affect the delicate ecosystems that exist in the cave.

Fire and smoke

Fire and smoke (including that from burning tobacco) fouls the air in caves, and it irritates the organisms that live there and other people who visit. Therefore, do not smoke or create fires in or near caves.

Underground trails

When established trails exist, stay on them to help keep other areas of the cave pristine. If you visit new or less-traveled passages, keep your team to one route to minimize your impact on the cave and establish a trail for future visitors.

Alertness

When caving, remain clear headed. Drugs, including alcohol, that affect your alertness, judgment, or ability to think clearly make you a dangerous caver and a threat to the safety of your team.

Fitness

Caving can be physically demanding. When you are in poor condition or poor health, you tire more quickly, you slow the team, and you endanger yourself. Fatigue or weakness makes you prone to accidents. Know your limits, and do not attempt trips beyond your abilities. New cavers should begin with short trips. If you have doubts about the demands of a trip, consult an experienced caver who knows the cave. Tell your team members when you feel it is time to turn back. As it does in any physical activity, smoking diminishes your stamina and the efficiency of your lungs.

Ropes

You may find a handline helpful on some climbs underground, but free-climbing a rope hand-over-hand is an easy way to die. Likewise, use only 100 % nylon handlines that are specifically made for rock climbing or caving. Vertical caving — using ropes to descend and ascend pits — involves special skills and equipment, which differ from those used by rock climbers. Seek vertical caving training from a competent instructor before doing rope work in a cave. Avoid using existing ropes, slings, and ladders you find underground.



HAZARDS

A novice's apprehension before a caving trip is healthy, and an awareness of possible hazards helps you avoid them.

Rock!

Beware falling objects while caving. Avoid unstable breakdown and steep, loose slopes. Standing under anyone climbing puts you in a rockfall zone as well as in a "people-fall" zone, a dangerous place to be. Do not start moving until those who might be hit by something you dislodge have moved to a safe place.

If you do dislodge a rock or drop equipment, warn those below you by shouting "**rock!**" loudly and clearly. When you hear someone yell "rock!" seek shelter, and do not look up!

Trapped

Avoid forcing yourself into small or tight places where exiting may be very difficult, or your teammates would be unable to reach you to help you out. Consider entering a tight section of passage feet first, especially going downhill, because it will be easier to return if you do not continue. Know your physical and mental limits, and back out before you reach them.

Lost

As you proceed through a cave, examine the passage behind you, and memorize intersections and climbs. Responsible cavers know that every cave is two caves — the one you see entering and the one you see leaving. On the way in, place a small pile of rocks at certain intersections where the passage out may not be obvious.

Should you become lost, systematically and thoroughly check passages, marking them with loose rocks as you eliminate possibilities.

If you are lost and your light supply is low, find a dry spot to wait for help. Stay out of breezes and water, and wear your driest clothes, for help may not arrive for hours. To help stay warm, you may need to wear the plastic garbage bag you carry in your helmet. Conserve lights by turning them off. Call out when you hear someone.

Falls

Falls are a common type of caving accident. Slow down, pay attention to where you are going and what you are touching. Avoid running, jumping, and other sudden moves. An injury that might be minor to treat on the surface can have life-threatening consequences underground and require a major rescue. Keep in mind that a rescue can endanger other people, as well as the cave itself.

When you climb, test handholds and footholds before committing yourself to a move. Wear boots with good treads to help keep you from slipping on rocks and mud. Do not wear athletic shoes underground.

Floods

Some caves flood, either suddenly or slowly, and flooding can trap and even drown cavers. If in doubt, visit another cave.

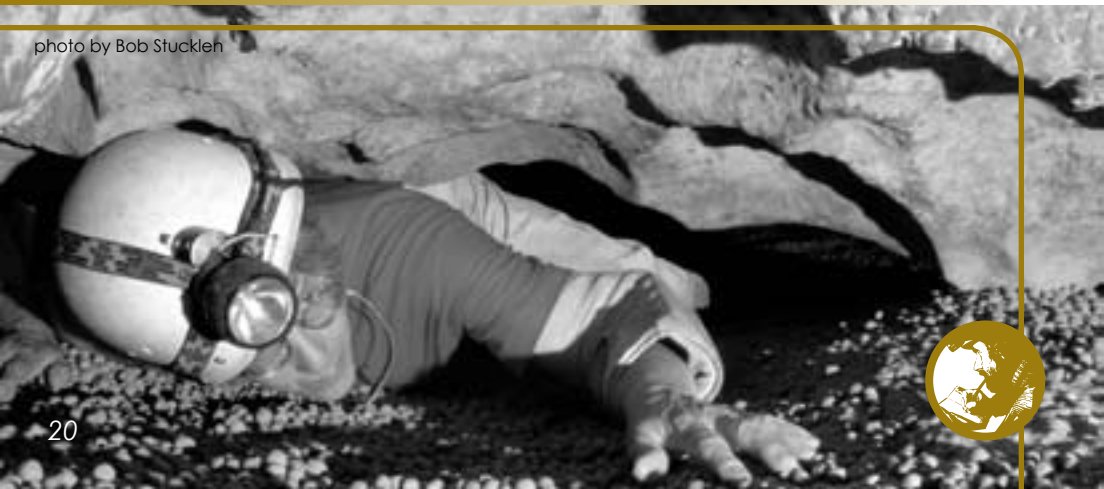
Out of light

Moving together as a team, and each person carrying three sources of light, extra bulbs, and batteries, means that finding yourself out of light is only a dim possibility. However, if you do find yourself with no light, avoid trying to go anywhere. Because of the possibility of falling, trying to cave in the dark may lead to injury or death.

Hypothermia

Caves are frequently wet and sometimes breezy, and such conditions promote hypothermia, which can be deadly. Dress warmly, keep moving, stay out of breezes when not moving, and avoid getting wet.

photo by Bob Stucklen



QUICK REVIEW

For the cave

- Avoid disturbing cave organisms or their environment.
- Pack out everything you bring with you, and any trash you find.
- Carry an appropriate container for your body wastes, and pack them out.
- Do not smoke or light fires in caves or near their entrances.
- Do not disturb archeological or paleontological artifacts.
- Do not damage formations or other surfaces of the cave.
- Stay on established trails to help keep other areas of the cave pristine.
- Participate in projects to preserve and rehabilitate caves, such as removing graffiti, picking up litter, and repairing broken formations.
- Educate landowners about the value of their caves.
- Clean karst features, such as sinkholes, that have been used as receptacles for rubbish.

For yourself

- Learn safe caving skills from responsible cavers.
- Check the weather forecast before entering a cave.
- Tell someone on the surface of your plans.
- Ask permission from the cave owner.
- Be properly dressed and equipped.
- Know your limits, rest frequently, and watch for fatigue in others.
- Keep moving and dress warmly to avoid hypothermia.
- Let the slowest caver set the pace.
- If an immobilizing injury occurs, keep the injured caver warm. Seek help from a local cave rescue organization, or dial 911 and tell the dispatcher you have an emergency requiring a cave rescue-trained team.
- If you get lost, conserve your light.
- If you have no light, avoid trying to go anywhere, and stay warm and dry.
- Practice rope work on the surface under the guidance of an expert before your first vertical caving trip.

DO IT RIGHT

You still want to go caving?

Then do yourself a favor. Contact a local chapter, or *grotto*, of the National Speleological Society (NSS). Its members are available to help you do it right and to teach you more about caves and caving. A list of grottos with their contact information is located on the NSS Web site.

In fact, join the NSS. With over 11,000 members, the Society does more than any other organization to study, explore, and conserve cave and karst resources, protect access to caves, and encourage responsible management of caves and their unique and fragile environments.

If you just would like to give caving a try, consider going on a wild trip offered by many commercial caves and some National Parks. Check the National Caves Association Web site for the show caves near you.

Cavers' motto

And follow the responsible cavers' motto:

Take nothing but pictures

Leave nothing but carefully placed footprints

Kill nothing but time

Finding out more

Finally, investigate and learn. Visit the NSS Web site, join the NSS discussion forum (CaveChat), read books on techniques and speleology, and join an NSS grotto to learn from experienced cavers.

NSS Policy For Cave Conservation

Conservation creed

The National Speleological Society believes: that caves have unique scientific, recreational, and scenic values; that these values are endangered by both carelessness and intentional vandalism; that these values, once gone, cannot be recovered; and that the responsibility for protecting caves must be assumed by those who study and enjoy them.

Cave preservation

Accordingly, the Society works for the preservation of caves with a realistic policy supported by effective programs for: the encouragement of self-discipline among cavers; education and research concerning the cause and prevention of cave damage; and special projects, including cooperation with other groups similarly dedicated to the conservation of natural areas. Specifically: all contents of a cave, formations, life, and loose deposits, are significant for their enjoyment and interpretation. Therefore, caving parties leave a cave as they find it. They provide means for the removal of waste, limit markings to a few small and removable signs as are needed for surveys, and especially, exercise extreme care not to accidentally break or soil formations, disturb life forms, or unnecessarily increase the number of disfiguring paths through an area.

Collecting in caves

Scientific collection is professional, selective, and minimal. Collecting mineral or biological material for display purposes, including previously broken or dead specimens, is never justified, because it encourages others to collect and destroys the interest of the cave.

Appropriate conservation projects

The Society encourages projects such as: establishing cave preserves, placing entrance gates where appropriate, opposing the sale of speleothems, supporting effective protective measures, cleaning and restoring over-used caves, cooperating with private cave owners by supplying them with knowledge about their cave and assisting them in protecting their cave and property from damage during cave visits, and encouraging commercial cave owners to make use of their opportunity to aid the public in understanding caves and the importance of their conservation.



Publication of cave locations

Where there is reason to believe that publication of cave locations will lead to vandalism before adequate protection can be established, the Society will oppose such publication.

Society member duties

It is the duty of every Society member to take personal responsibility for spreading a consciousness of the cave conservation problem to each potential user of caves. Without this, the beauty and value of our caves will not long remain with us.

Additional Reading

Books

The National Speleology Bookstore stocks the largest range of books on caves and caving in the United States. Shop online at www.NSSBookstore.org.

National Speleological Society
2813 Cave Avenue
Huntsville, AL 35810
256-852-1300
nss@caves.org

Youth Groups:

The NSS Web site has a range of information especially for youth leaders and parents, an equipment list, and information specifically for Boy Scouts.

Useful Web sites:

- National Speleological Society: [**www.caves.org**](http://www.caves.org)
- National Caves Association: [**www.cavern.com**](http://www.cavern.com)
- Bat Conservation International: [**www.batcon.org**](http://www.batcon.org)
- National Park Service Caves and Karst Program:
[**www.nature.nps.gov/geology/caves/program.htm**](http://www.nature.nps.gov/geology/caves/program.htm)
- NSS Discussion Forum: [**www.CaveChat.org**](http://www.CaveChat.org)

Visit the Inner Mountain Outfitters web site
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and Rescue Equipment!



41 Herald Drive | Bethlehem, GA 30620
770-307-4686