



UNDERWATER SPELEOLOGY

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Original Cave Diving Painting by John Potter - see page 4

UNDERWATER SPELEOLOGY

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Magazine Submissions — We welcome all news items, articles, Letters to the Editor, photos, slides, cartoons, and other items of interest or importance to the cave-diving community from all members, subscribers, and other interested parties. They should be sent directly to the Editor (see address on left column). We can also use text processed in most IBM-compatible and some Macintosh formats. (Please contact the Editor directly for details and arrangements.)

Advertising — The NSS-CDS Board of Directors has approved the reinstitution of paid commercial advertising for *Underwater Speleology*. Please contact the Editor for information and arrangements (see address on left column).

The NSS and Cave Diving — Founded in 1941, the National Speleological Society joins together thousands of individuals dedicated to the safe study, exploration, and conservation of caves. The first cave-diving information ever published in the United States was in a 1947 *NSS Bulletin*. In 1948, NSS divers were responsible for the first cave dives in the United States using scuba. Prior to 1973, cave diving within the NSS was on a purely local level. That year saw the creation off the NSS Cave Diving Section to provide a vehicle for information exchange. Today, with over 500 members, the Cave Diving Section promotes safe cave diving through semi-annual workshops; cavern- and cave-diving training programs; warning-sign installations; search, rescue, and recovery through the National Cave Rescue Commission; cave exploration and mapping; several texts and publications on cave diving; and the bimonthly magazine, *Underwater Speleology*.

NSS Membership — The National Speleological Society welcomes the interest of anyone who has a sincere concern about the safety, study, exploration, and conservation of caves, wet or dry. You may join the NSS either by writing directly to its main office (National Speleological Society, Inc., Cave Avenue, Huntsville, AL 35810) or to the Cave Diving Section. Annual membership is \$25.00 and includes subscription to the NSS's monthly magazine, *NSS News*, as well as voting privileges and discounts on publications and conventions.

CDS Membership — As a sub-organization or "section" of the NSS, the Cave Diving Section is subject to the bylaws and ethics of the NSS. Membership in the Cave Diving Section is open to anyone who is a member in good standing of the NSS. Annual membership is \$5.00 per year and includes subscription to the CDS's bimonthly magazine, *Underwater Speleology*, as well as voting privileges and discounts on publications and workshops.

Subscription — If you do not wish to join the NSS and CDS, but would like to keep current on cave-diving events, exploration and technology, you are invited to subscribe to *Underwater Speleology* for \$15.00 per year.

DNR ADVISORY MEETING

by Mark Leonard (NSS #23292), Vice-Chairman

On March 8 of this year, my wife, Debbie, and I attended the Recreational User Groups Advisory Meeting at Wekiwa Spring Park with the Department of Natural Resources (DNR). This was a semiannual meeting where groups like the NSS-CDS can express our feelings on many an issue to the Director of Parks, Fran Mainella. The Department was made up of John Baust, Chief of Bureau of Recreational Lands Management; George Apthorp, Operations & Management Consultant; and Kathleen Brown. The main topic discussed at this meeting was the upcoming fee changes.

Before I explain these let us look at some background. As I'm sure you know, Florida is in a budget crunch. Governor Lawton Chiles ordered a mandatory 5% personnel cut across the board. This cut is in addition to many cuts in other funding. Services in the park cost money to run. In an attempt to keep service at its current level and not close any parks, a fee increase is being proposed. It would go into effect around July 1, 1991. Peacock Springs

may only receive an honor box system of \$1.00 per car.

Many old fees are being eliminated and new ones are being created. For example, we were supposed to be paying both a diving and an entrance fee. Now the diving fee will cover the entrance fee, too. There will be no difference between state residents and out-of-state residents.

Entrance Fee: \$3.25 per vehicle with up to 8 people per vehicle

1 Day Diving: \$5.00 per person

Special Annual Pass: \$40.00 - this pass would include diving at all spring diving parks. (Also included is horseback riding on your own horse at parks where permitted.)

Annual Commercial Pass: \$100.00 - good for 1 instructor and 1 assistant, but not good for students. (I am not sure who would buy this when they can get 2 Special Annual Passes for \$80.00.)

There is talk of a family annual pass that would save money for the family, but at this time there is no amount figure on the cost.

While these fees represent an increase, I feel that with the state in a budget crunch it is a lot better than closing the parks altogether. For information purposes, last year the divers and horseback riders contributed \$40,000 total revenue to the parks. With the fee increase they anticipate the total to be \$60,000. That \$60,000 is 0.3% (or not even a third of one percent) of the total \$20,000,000 budget.

On a much nicer note, I talked to Fran Mainella about the rumor that Peacock Springs will be closed. She said that she does not see now or foresee the possible closing of Peacock Springs. She intends to keep it open. One option that *may* happen in the future is a request for volunteers to staff it on the weekend. If it comes to that I feel that the cave-diving community could get this accomplished in order to keep the park open. ■

A MESSAGE FROM THE NEW CHAIRMAN

by Frank Howard (NSS #27187), Chairman

Following the election of three new board members, your Board of Directors reorganized with individual responsibilities as shown in the front of this publication. Your Board has undertaken several new projects which will be outlined in this column in coming issues of UWS.

During the past two years the cave-diving community has experienced a sharp increase in the number of fatal accidents involving trained cave divers. This trend must be reversed. Your Board has designated 1991 as cave diving's year for getting "Back to Basics."

"Back to Basics" will be the theme

of the 1991 Spring Workshop scheduled for May 25-26 in Branford, Florida. The program will be organized to review the traditional disciplines, procedures and techniques which have served cave divers so well over the years and to assess innovations needed to improve margins of safety.

I urge each and every one of you to perform a critical review of your own cave-diving practices and techniques: inspect your equipment as you did in preparing for your first cave dives; review the pace at which you are expanding your cave-diving horizons and insure that you are developing new skills at a moderate rate and with con-

servative approaches. Then come to the Spring Workshop and participate in a community review of our collective judgments.

We must develop a greater respect for the demands of SAFE CAVE DIVING. And it must be done with intelligence and skill. The cave-diver accident rate must be reduced.

Please arrange your schedules to attend this important Workshop May 25-26 in Branford, which will address those actions which make cave diving safe. A program for advanced training activities will also be provided. ■

NEW TELFORD MAP TO BE RELEASED AT WORKSHOP

by Frank Howard (NSS #27187), Chairman

A new map of the Telford Spring lower section will be released to the cave-diving community for the first time at the Spring Workshop, May 25-26, at Branford, Florida. The Telford Spring underwater cave map being prepared by Kelly Brady is in the final stages of cartography and is expected to be released to the NSS-CDS Maps Project Coordinator in March, 1991. The Telford Spring map will be available in full-size blue-line copies and in photo-reduced laminated prints.

Laminated prints sold by the CDS are suitable for use in the field and may be carried underwater on cave dives. The CDS uses high-quality lamination processes and will replace free of charge any maps which delaminate in normal use including underwater applications.

The use of underwater cave maps in dive planning and execution is en-

couraged for all cave divers as an integral part of safe cave-diving procedures.

Reading and interpretation of underwater cave maps is included in our cave-diver training. However, all cave divers are encouraged to increase their knowledge and skill in the use of cave maps by taking the NSS-CDS Special Course in "Underwater Surveying." John Burge and Frank Howard will present this course again at the Spring Workshop.

ALL cave divers who have not taken this training are encouraged to attend. The text used for this training is *Basic Underwater Cave Surveying* by John Burge. Reading through this text prior to the course will increase the effectiveness of the training. The book can be purchased from NSS-CDS Publications, P.O. Box 950, Branford, FL 32008-

0950. The price is \$12.00.

Other maps are in development to be added to the NSS-CDS inventory over the next year. The most significant is a map of the Devil's Ear Spring, which is targeted for release at the 1991 Winter Workshop.

The cave-diving community has seen a sharp increase in the number of trained cave-diver fatalities over the past two years. The NSS-CDS Board of Directors is providing leadership for a "Back to Basics" review of cave-diver practices and procedures by ALLCAVE DIVERS to reverse this trend in underwater cave-diving accidents. The use of maps in dive planning and underwater is one of the tools that each of us should be applying. If you are not, please do something about it.

Safe Cave Diving - Back to Basics! ■

CAVE DIVING MANUAL COVER PHOTO CONTEST

The Section's new Cave Diving Manual is slated for release at the 1991 Winter Workshop. This comprehensive new manual, being coordinated by our most prolific author and editor, Training Chairman Joe Prosser, will replace the old *NSS Cave Diving Manual*, which has been out of print now for several years.

The new manual will comprise chapters written by some of our very finest underwater cave explorers, equipment technologists, and medical authorities. Every effort is being made to make it as comprehensive and up to date as possible.

Joe reported at the last board meeting that he was very encouraged by the enthusiasm and responses received from authors thus far and said that

everything was proceeding right on schedule.

We plan on having a beautiful full-color cover, and the CDS Board of Directors has decided to run a Cover Photo Contest to encourage our members and subscribers to submit color photographs of cave-diving subjects for consideration for use on the front and back covers of the new manual.

Further details of the Contest will be announced in the next issue of *UWS*, but the winner(s) will receive valuable awards including a free membership to the Divers Alert Network, with chamber insurance. (Runners up will be featured on the front cover of *UWS*.) So start looking through your photos—or get your cameras out. ■

COVER ART THIS ISSUE

We are very pleased this issue to feature an original painting created by artist/cave diver John Potter. John is a graduate of the prestigious Ringling School of Art and Design in Sarasota, Florida, and his patrons have included the United Nations and the international dive organization, C.M.A.S., in Paris, France. He has also done numerous illustrations for newspapers and magazines, wall murals and shirt designs. We will be featuring more of his underwater cave art in future issues. For further information about obtaining an original painting, contact:

John Potter
3323 S.W. 31st Dr. #14A
Gainesville, FL 32609
(904) 338-0055 (res)
392-2411 (bus) ■

PEACOCK RANGER RECEIVES CAVERN CERTIFICATION

by Terry DeRouin (NSS #29395)

On the weekend of January 20th, 1991, Carmen Bales, Florida State Park Officer (that's two steps up from Ranger) of Peacock Springs State Park, received her NSS-CDS Cavern Diver certification. Carmen Bales has been with the State of Florida Park Service for several years, but was just recently as-

signed to the Peacock Springs Recreational Area. In the interests of being better able to serve the cave-diving community and because of her own interest in Florida caves, Carmen has started up the road towards Full Cave Diver certification.

The training of the park officers was

offered at no charge by myself (Carmen's instructor), the NSS-CDS, and Divers Supply. We hope that this is a continuation of good relations between the State of Florida and the cave-diving community. Congratulations, Carmen! ■

NEW UNDERWATER VIDEO AND LIGHTING COURSE

by Pete Butt (NSS #24215)

Underwater filmmaker and explorer Wes Skiles is now offering "Principles of Underwater Video and Lighting Techniques," a comprehensive two-day program open to all divers who want to improve their skills with underwater video, lighting, and production. Wes Skiles is internationally known for bringing back underwater images from some of the most challenging environments on the planet, as seen on *National Geographic Explorer*, and on various U.S. and foreign networks. An active lecturer and dive instructor for over 15 years, Wes is offering this new program to divers who want to create dynamic and professional-looking underwater videos.

"I'm very excited about this program, as it teaches many challenging principles in a very innovative and fun manner," says Skiles. "There's so much to think about while you're diving, that it's often difficult at best to create working sequences that tell an exciting and entertaining story to your viewers. This program is designed to teach you how to manage techniques and to develop your own style, so you can make that

next 'quantum jump' in vision and expertise."

Also covered in the course is the use of support equipment and lighting systems. Students will take on the different roles typically involved in a professional shoot, including directing, modeling, and lighting. The program concludes with an introduction to editing. Participants are encouraged to bring their own camera and at least one underwater video light. All other related equipment, such as off-camera video lights, tripods, filters, reflectors, storyboards, etc., are supplied for use during the program.

The program is being taught at the Karst Productions Studio in High Springs, Florida, and will utilize Ginnie Springs Resort as the site for most diving and fieldwork. Next course dates are April 20-21, June 8-9, August 10-11, and September 7-8.

Persons interested in more information or registration should call or write Karst Productions at P.O. Box 1368, High Springs, FL 32643, (904) 454-3556. ■

Welcome To Mary Garvin

Special thanks go to Mary Garvin of Tallahassee, Florida, who has volunteered to handle the future mailings of *UWS* and other Section materials to our foreign members and subscribers. ■

Gear For Sale

Tekna Scooter, no charger - \$650
Oceanic 3000 TTL Strobe (incl. arm, cord, grip), used 1 time - \$500
Nikonos 4A Camera, like new - \$300.
Seaquest ADV BC, navy/gray, size medium, excellent condition - \$150
Call Sondie at (904) 462-3997. ■

Expired Memberships

Please check your mailing label to make sure your CDS membership or *UWS* subscription has not expired. After this issue, anyone who's label date reads earlier than "(05-91)" will be dropped from the mailing list and from the official NSS-CDS roster. We don't want to drop anyone unjustly, so please examine your label carefully. ■

NSS-CDS SPRING WORKSHOP "BACK TO BASICS"

by Terry DeRouin (NSS #29395), Workshop Coordinator

Memorial Day weekend is the time to plan for the National Speleological Society - Cave Diving Section's Spring Workshop. This year, the Workshop will get "BACK TO BASICS." It will be a great time to learn more about the roots of cave diving with an emphasis on safety procedures.

Topics will include areas like the basics of training and safety, speleogenesis (cave formation), cave photography and video techniques, basic

maintenance of equipment, diving physiology, gas-handling techniques, and more.

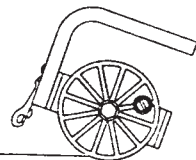
This year's workshop will offer interesting presentations for newcomers and experienced cavers alike. Sunday will also host many hands-on workshops like the ever-popular Survey Workshop, a Nitrox course, and, for the first time, a series of caving "Olympics" for divers and non-divers alike. Prizes, awards, food, vendors, and just a plain

old good-time fun will be offered in abundance to all.

This year's workshop is being co-chaired by Terry DeRouin and Bill Foote, two people who bring an active interest and vitality to cave diving in general.

A pre-registration form is enclosed. For more information contact:
NSS Cave Diving Section
P. O. Box 950
Branford, FL 32008-0950 ■

THE SAFETY LINE



by Wendy Short (NSS #30802), Safety Coordinator South

Attitudes. Everyone has them. Some are good and some are not so good. Webster defines *attitude* as "a mental position or feeling with regard to a fact; a state of mind influencing the response to a stimulus." This says a positive attitude can help in undesirable circumstances.

Have any of your open-water friends (if you associate with any) asked you what you see in cave diving? This may seem like an obvious question at first, but you should analyze why you really got into cave diving and why you continue. (Not necessarily what you tell people.) Your attitude towards cave diving often reflects your safety habits.

Motivation plays an important role in a safe approach and attitude toward cave diving. Motivation mirrors the mental attitude of the diver. Take a moment to analyze your reasons for cave diving. Some proper motivations are: exploration, learning, challenge, adventure, beauty, geology, camaraderie or buddies, or improving your skills with

practice. Some improper attitudes include: cavaliness or casualness, thrill seeking, instant expert, perceiving superiority, competitiveness, peer-destructive behavior, cheating death, or showing off to impress people. You constantly need to reassess your reasons for cave diving. It will not only make you aware of your real feelings, but should make diving more enjoyable once you're in touch with those feelings.

Most factors influencing diving safety are attitude related and reflect a desire to be safe. Unsafe acts invariably result from an unsafe attitude or lack of skill. The risk involved is related to the style of practice and attitude. You must perceive that a risk exists. It is dangerous to start taking shortcuts or breaking rules without consciously realizing you are developing unsafe attitudes. It's the easy passages you've done a dozen times that will get you, because you can become lazy or indifferent, and you tend to relax and become complacent.

An example of this would be not gapping the jump from the main line to the Mud Tunnel in Little River. Maybe you've done that shortcut dozens of times and nothing's happened. It's all too easy to think nothing will ever happen (it hasn't yet). Until it does. This is known as "perceived risk." Your belief, or attitude, does not minimize the reality of risk, it probably increases it. Situations become more dangerous if your attitudes toward technique and safety become slack. The last person to recognize complacency is the person who practices it. If you develop unsafe attitudes, you develop unsafe habits.

Attitude is so important and paramount to safety that there is not enough room to cover all the issues here. So, you guessed it! We'll continue this in the next issue. You may have already made a subconscious decision not to read the next "Safety Line." Bad attitude! ■

WATER VELOCITIES IN UNDERWATER CAVES OF FLORIDA

by William L. Wilson (NSS #12231 Fellow)

One of the compensations for turning a cave dive is the joy of letting the current propel you through the cave. Compared to crawling and scrambling through an air-filled cave, soaring through an underwater cave, with the current at your back, is pure fun.

Although most divers have a sense of the relative strength of currents, very few velocities have been measured and reported. Velocity of flow is commonly of interest to hydrologists, because it, and distance, determine the amount of time required for pollution from a point source to reach a well or spring. The purpose of this article is to describe briefly the range of water velocities in underwater caves of Florida, and give some examples from well-known dive sites.

Accurate velocities for many underwater cave systems were determined either by direct measurement (counting revolutions on a Price AA current meter while cave diving), quantitative dye tracing, or by dividing discharge by cross-sectional area of the passage.

Velocities of flow in explorable underwater cave passages, under gradients typical of Florida, commonly range from 0.05-0.5 ft/s. Obviously, velocities less than 0.05 ft/s may occur, and zero flow will occur in dead-end passages. At a few constrictions, velocities at least as high as 3.6 ft/s occur for short distances. The relative sensation of current strength is described in Table 1.

In order to give some scale to the diver's perception of relative current strength, I propose the following velocity classes for water following through caves in the Floridan Aquifer:

TABLE 2

Current Class	Velocity Range
None Detectable	Less than 0.05 ft/s
Slow	0.05 ≤ 0.10 ft/s
Medium	0.10 ≤ 0.50 ft/s
High	0.50 ≤ 1.50 ft/s
Very High	More than 1.50 ft/s

The highest sustained velocity yet measured directly, occurred in the main

vent of Wekiwa Spring, Orange County. At a depth of 15' is a horizontal passage, 2.5' high and 6' wide. Water discharges from the passage at an average velocity of 3.6 ft/s, as measured with a Price AA current meter. The high velocity has prevented penetration of a passage that obviously goes. The velocity was measured by Bill Wilson, Bruce Dean and Barbara Smith, on May 18, 1989, in cooperation with Wekiwa Spring State Park.

Croaker Hole is a subriver spring on the floor of the St. Johns River, at an enlargement of the channel called Little Lake George, Putnam County. The discharge emerges through a passage, which, at its smallest point, is 7.5' high and 8.5' wide. The average velocity at the smallest point is 1.5 ft/s, as measured with a Price AA current meter. The velocity was measured by Bill Wilson, Diane Wilson and Rick Spechler, Hydrogeologist, U.S. Geological Survey, Altamonte Springs, on February 24, 1991.

In Devil's Ear Spring, Santa Fe River, Gilchrist County, at the bottom of the entrance shaft, water discharges from a horizontal passage that is 13.8' high and 2-7' wide. The water velocity ranges from 1.0 ft/s near the bottom of the passage to 2.3 ft/s near the top. The velocity was measured by Bill Wilson, Bob Wilson and Terri Skiles with a hand-held Price AA current meter, on April 24, 1988.

The main passage, between Devil's Ear Spring and the Lips, is generally 22' high and 19' wide. The passage is somewhat irregular in shape, having a narrower, canyon-like slot, approximately 6' high and 4' wide, in the ceiling. The cross-sectional area is approximately 260 ft². Dividing by the average combined discharge of 212 ft³/s for Devil's Eye and Devil's Ear Springs, yields an average velocity in the passage of approximately 0.8 ft/s.

TABLE 1

VELOCITY	DESCRIPTION OF CURRENT STRENGTH
0.01 ft/s or less	Water movement is essentially imperceptible by diver. Clay and/or silt may be present on floor.
0.05 ft/s	Water movement barely perceptible to an observant diver. Silt may be present on floor.
0.10 ft/s	Water movement apparent to a casually observant diver. Current perceived as non-problematic for advancement by swimming. Fine sand may be present on floor.
0.50 ft/s	Current perceived as strong. Requires substantial effort to swim against. Advancement requires pulling. Gravel may be present.
3.00 ft/s or more	Life-threatening current. Mask will be ripped off if diver does not face into flow. Impossible to swim against. Pulling is possible but if grip is lost, diver will be blown away with dire consequences. Only cobbles and boulders present on floor, except for gravel in sheltered alcoves.

The velocity across the height and width of the passage varies widely because of the irregular cross section. Most of the velocities are probably more than 0.5 ft/s.

The passage just inside the beginning of the Lips is 3.5' high and 21' wide, which indicates the cross-sectional area is 73.5 ft². Assuming that all of the flow that emerges from Devil's Eye and Devil's Ear Springs passes through the Lips, then at the average combined discharge of 212 ft³/s, the velocity through the Lips averages approximately 2.9 ft/s. However, the velocity may be somewhat slower; approximately 2.5 ft/s, because some of the discharge may be going around the sides or below the breakdown blocks that form the Lips.

Quantitative dye tracing has shown that the average velocity of flow through most of the Devil's Eye Cave System is 0.14 ft/s. Many of the pas-

sages are fairly large, having typical dimensions of 10' high and 30' wide. This suggests that approximately 33 ft³/s of water is flowing through most of the passages in the anastomotic cavern network.

At the grate in Ginnie Spring, Gilchrist County, the water velocities vary considerably across the width and height of the grate, ranging from 0.66 to 3.6 ft/s. The highest velocity occurs on the right-hand side facing into the current. The average velocity across the entire grate is 1.6 ft/s when the spring is discharging its typical flow of approximately 40 ft³/s. The water velocities were measured by Bill Wilson and Bob Wilson, with a hand-held Price AA current meter, on April 24, 1988.

Some of the slowest velocities yet observed were established by quantitative dye tracing from wells south of Ginnie Spring. The dye was conveyed

to Ginnie Spring at an average velocity of 35 ft/hr and to Dogwood Spring at an average velocity of 65 ft/hr.

In Wakulla Spring, 13 miles south of Tallahassee, the A Tunnel averages 40' high and 80' wide and has an approximately rectangular cross section. In the first 1000' of the passage, the A Tunnel conveys an average discharge of 390 ft³/s, so the average velocity is approximately 0.1 ft/s.

Cave passages commonly transport water thousands to tens of thousands of times faster than the intergranular spaces and small cracks in the rock. The efficiency of caves makes them a major factor for ground-water transport. Water velocity is one of the basic physical parameters that can be measured or estimated by divers. It would be very helpful to include notes about water velocities on cave maps and in cave descriptions. ■

CAVE DIVING LITERATURE: CURRENT PERSPECTIVES

by Milledge Murphey, Ph.D. (NSS #24433)

From the early cave-diving publications to the present-day journalistic scene, there are included many interesting and informative articles, books, monographs, and other publications. Most cave divers, and many of the divers who participate only in the open-water sector, are vitally interested in reading about cave explorers and their accomplishments. In fact, few adventure stories are as exciting and spellbinding as are the real-life experiences of elite cave divers.

Interestingly, the appeal is great for all who read of these exploits, not solely scuba divers and other cave divers. The media, especially in Florida, frequently editorialize about cave-diving activity, often with less-than-accurate reporting, and almost always with little knowledge, unless they contact and interview cave divers before going to press. Recently, I have been asked to develop a selected listing of cave-diving-related literature and am now providing a

selected listing of cave-diving book references for reader review. This listing is obviously not complete; rather, it contains some of the book references that are of interest. I also include a listing of selected periodical references for those who are interested in the pursuit of cave-diving topics which they may contain from time to time.

It is interesting to note that cave-diving publication has dramatically increased in the recent past with considerable documentation in both scientific journals and books written on the subject. The attached listing is selected from those books related to subaquatic speleology which appear to be of interest in the context of present diving practices. While certainly not complete, the listing does give the reader the flavor of material which is available in book form. Should readers have knowledge of additional books on cave diving, please submit them to the author for inclusion in an updated listing. Such ref-

erences may be mailed to my attention at the following address:

Milledge Murphey, Ph.D.
309-B FLG
University of Florida
Gainesville, FL 32611

SELECTED CAVE-DIVING REFERENCES

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60' VIEW

*Desire
 stronger than fear
 of unknown faces and places
 and depths.
 Break the deep
 and enter other worlds
 where beauty abounds
 from above, inside,
 around.*

*And no gravity
 this atmosphere is free
 limited only as you breathe
 by your very humanity.
 Inhale - rise up,
 exhale and fall
 undulating rhythm
 in harmony with all.*

*In calm comes into focus
 awareness of the mystery
 conscious connection to
 infinite possibility.
 Reclaim a wholeness
 and feel more alive
 from just a glimpse
 of paradise.*

— Linda Timcombe
 1990

SHOOTING CAVE VIDEO

by Frank Lavalée (NSS #27829)

Making an enjoyable cave dive at one of your favorite sites is great, but what is even more enjoyable is to be able to relive that cave dive time and time again. How do you do that? By having the cave dive on video, to enjoy in the solitude of your home, or to share with family and friends.

Some of my friends and fellow open-water divers fail to understand my love for cave diving and why I do it so much more often than open-water diving. The most typical response is "What is there to enjoy down there? It is dark and there are no fish and plant life to enjoy. All you see are rocks."

It is really difficult to try and explain to open-water divers the beauty and awesome sight of a cave system and the countless formations that are encountered. But when I tell them I have the cave dive on video to watch, their reaction is usually positive. Curiosity gets the best of them.

Besides the challenge and enjoyment of shooting and editing your cave dives, you are also building a video library of your dives, which can prove to be invaluable over the years.

If you are seriously interested in shooting cave video, you will need to invest in the following equipment: 1) an underwater video housing with dome port, 2) a camcorder with wide-angle lens, 3) a power pack and dual lighthoods, 4) a color television, and 5) a video cassette recorder. These items don't come cheap. Expect to invest about \$3,000 - \$3,500 for them.

Once you have acquired your housing, camcorder, and lighting system, it becomes a matter of practice and experimenting (in open water) until you get your video unit set up the way you want it and have the entire unit as neutrally buoyant in water as possible. This will involve the use of buoyancy tubes or some other type of buoyant material. (One manufacturer now makes a buoyancy sleeve for the battery pack, which makes it practically neutral in water.)

If the video unit is too positively or too negatively buoyant, or is too difficult to handle in open water, you don't

need to be taking it into a cave. Besides compromising your safety and the safety of your buddies, you will have difficulty in shooting decent video.

When I first started shooting video over a year ago, the results were somewhat disappointing, owing to three problems—improper focusing, inadequate lighting, and not having divers in the video.

Most video-housing manufacturers will supply information or instructional tapes as to what settings to put on your camcorder for underwater use. A dome port on the housing and a wide-angle lens on the camcorder are usually recommended. If you try the trial-and-error method, you are in for shooting a lot of useless video.

Obviously, it is dark inside a cave. If your lighting is not of sufficient intensity and does not give an even light pattern through the viewing area, the results will be disappointing. Dual lighthoods that give you plenty of light, but direct it to one area, like the beams of auto headlights on a foggy morning, will show up very noticeably in your video, besides leaving hot spots and shadowy areas.

Once you have the focusing and lighting problems licked, you need to work on making your cave video interesting. One of the best ways I know is to have one or more divers in your video. Besides making the video much more enjoyable to look at, it gives your viewers an idea of the size of a passage or a room, when divers are in the video to compare to.

One good suggestion: use cave divers that typify what a good cave diver is. If your subjects are sloppy in their technique, have danglies grabbing at the guideline, or are kicking up silt, you will not exactly get rave reviews over your video.

Know the burn time of your lighting. You may have to shorten the length of a cave dive, unless you plan to shoot it in segments on different days.

For beginning cave video, a 12-volt system with dual 75- or 100-watt lighthoods will suffice very well, except in vary large passages or rooms. The dual

100-watt lighthoods will burn for about 20 minutes. The dual 75-watt lighthoods will burn for about 40 minutes.

A 24-volt or 336-volt system with higher-intensity lighthoods will bring out more detail and color in a larger area, but these systems are better left for the professional video photographer. Besides, they don't come cheap!

Until you become very proficient in shooting cave video, keep it simple! If you have extra controls on your housing, forget about them. You need only be concerned with two controls—the "On/Off" power switch and the "Recording/Standby" switch. Forget about the "zoom" or any other controls.

Once you start the cave dive and turn on the lights and put the camcorder on "record," leave them alone. You will have a lot of extra footage, but this gives you plenty of footage to work with so you can edit out the undesirable sections.

Turning the camcorder and the lighting off and on, in an attempt to shoot only certain parts of the dive and to conserve power, can become very frustrating. So is trying to continually look through the viewfinder. Besides causing unnecessary camera movement, you are being distracted from any emergency situation that may arise.

Because you are shooting video is no excuse for compromising safety or avoiding proper cave-diving procedures. All required cave-diving gear should be worn and proper procedures should be followed at all times!

A finished tape length of about 15 to 30 minutes is plenty. Your viewers will probably become bored or disinterested with an overly long tape.

Footage of the dive site itself and of you and your buddies entering and exiting the water, before and after a dive, can be shot by a non-diving buddy on a prior or subsequent trip. This can then be edited into the underwater video to give a story to it.

Shooting good video takes time, patience, and *plenty* of practice, but the end results will be very enjoyable and satisfying. I know it has been and will continue to be for me! ■

LESSONS FROM OVERHEAD:

A Comparison of Cave and Wreck Diving

Part II - By Bernie Chowdhury (NSS #30691)

The need in a cave for a guideline to open water is logical, yet it is surprising how many divers choose not to use one. The lesson of Hansel and Gretel was either not learned, or forgotten, by these divers! Training in the use of the guideline is essential. If improperly handled, the reel is prone to jamming. Also, the line may easily become entangled or, worse, may entangle the diver.

Besides training, careful choice of reel and line is essential for the type of dive one is doing. Differences can be noted in construction of reels, and size of line. Heavier line is typically preferred by wreck divers, as is attaching a reel to the light. Obviously, a light failure would mean that the diver would then have to: 1) carry two lights in one hand and wind the reel in simultaneously, 2) use only one active light for the buddy team, while the diver with the reel winds the line in, or, 3) leave the light and reel in the wreck and follow the line out while manipulating a backup light. The latter option means that the light and reel still need to be retrieved at another time.

Cave divers are taught to handle a separate reel and light in one hand. The

danger of this rests in the possibility of losing the light and/or reel because one is task loaded, i.e., simultaneously dumping BC, dealing with a flooded mask, trying to maintain a pace of reeling-in while being carried by a current, etc. (Task loading occurs when the diver becomes frustrated because of having to deal with several tasks simultaneously). If the reel is dropped in an area prone to silting, recovery of the continuous guideline may become difficult. A safety reel would then be critical in setting up a search pattern for the lost guideline. Prevention, via practice in proper handling, is the best cure.

The type of line one chooses is usually determined by the site. A heavy line is thicker, meaning that less of it will fit onto a reel. Thicker line is also less likely to be cut on sharp objects, which is a critical issue inside a wreck well travelled along the path of disintegration. As Gary Gentile points out in *Advanced Wreck Diving Guide*, when one is in a sunken vessel, an exit is usually not more than half a minute away. This makes the deaths of disoriented wreck divers all the more tragic. Hundreds of feet of line are usually not required by wreck divers,

therefore the safety of having a sturdier, thicker line makes sense. Also, a thicker line is less apt to float and become entangled in the wreckage.

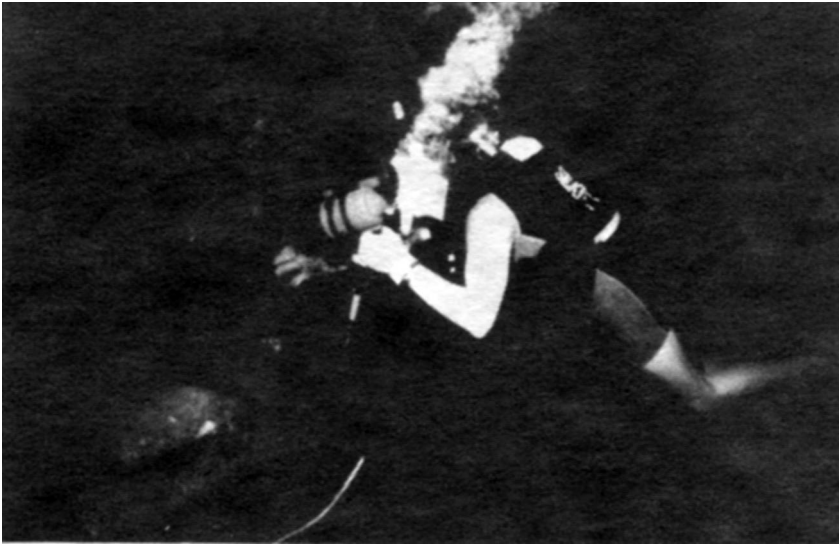
An enclosed explorer reel, such as Dive-Rite produces, is ideal for diving cold-water wrecks. When wearing 1/4" gloves or mitts, a smaller reel becomes difficult to handle. The line on the explorer reel does not float and is therefore less likely to become entangled in the diver's valves or in overhead wreckage. A reel that is not enclosed has the tendency to become unravelled when the wreck diver is at the surface in any wave conditions. A rubber band, placed around the line of a non-enclosed reel, helps solve this problem. Instead of using a slip knot to tie the reel off as is done in cave diving, wreck divers are advised to attach a butterfly clip to the end of the line; when making a tie-off, the line can be wrapped around wreckage and the clip attached to the line, securing it. This proves easy, fast and reliable.

Cave divers often explore hundreds, or even thousands, of feet of passage during a single dive. In this case, thinness is a serious issue, unless one wishes to carry a bulk of line and an unwieldy number of reels! As it is, cave divers may carry many reels on a dive. Consider the basic cave diver: a primary reel with 400' of line is used, in addition to a safety reel containing 140' of line. A "full cave" diver carries, in addition, at least one "gap" reel, with 50' of line. The gap reel is used when the diver "jumps" from one permanent line to another. Plastic arrows or clothespins placed on the line by the diver will show the way out. A diver may make many jumps during the dive, requiring one gap reel for each jump. The tying of the reel to a line and the placing of arrow markers requires training and practice, as does the recovery of these devices.

Permanent lines in popular caves allow the diver to explore many feet of passage without deploying too many reels. This feature of cave diving has not spread to wreck diving. A few



Diamant Tugboat and diver. Photo by M. R. Logie, Jr.



Prince Albert - Roatan Island. Photo by M. R. Logie, Jr.

reasons may account for this: many wrecks are hazardous enough without placing more lines that may entangle divers; wreck penetrations are generally not long enough to justify placing a permanent line; during wreck decay, the line may come to rest in a dangerous passage, or become severed; and, placing a line might encourage those who are not experienced enough to enter a wreck they would otherwise not go inside.

At least one wreck does have a permanent guideline system in it. This is the wreck of the U.S.S. Wilkes-Barre, which rests in 250' of water off Key West, Florida. Captain Billy Deans, owner of Key West Diver, Inc. and Full Cave certified, has placed lines in the intact stern section. Captain Billy maintains the lines along with a mooring he placed on the wreck. Because his is the only operation that dives this site, a great deal of control can be exercised to ensure that only well-qualified divers enter the wreck.

The lack of penetration lines inside most wrecks means that divers do not need to carry gap reels with them. Most wreck divers also do not carry safety reels, which may be a serious problem if their only reel is lost and the viz is limited. Many wreck divers choose not to use a guideline at all and engage in something called progressive penetration. (NOTE: The author has written an article on this subject, entitled "Wreck Diving Debate: Progressive Penetration vs. Guideline." This will appear in a forthcoming issue of the

NAUI publication, *Sources: The Journal of Underwater Education*.) Often, a wreck offers so many entrance and exit points that a diver can easily enter one part of the wreck and exit elsewhere. Should a siltout occur, an intricate knowledge of the wreck is needed. Without having a guideline to open water, an exit during a siltout is arrived at by visualizing where in the wreck one is, and feeling one's way out. Many persons have become very religious during such exits

It was mentioned earlier that monofilament line and fishing nets are often found on wrecks. Nets are easily seen and avoided by the diver, but monofilament is clear and thin, acting as a spider's web. The diver who becomes entangled must remain calm and either cut himself loose, or rely on a buddy to free him. An avid wreck diver usually carries at least two strategically placed knives, enabling him the capability of reaching at least one cutting instrument, no matter how entangled he is.

Cave divers also may become entangled. Given the lack of fishing line inside a cave, diver entanglement usually involves the line carried in during the dive. Proper handling of the reel and placement of the guideline inside the cave prevents this problem. Should the diver become hopelessly entangled, however, cutting the line may be necessary. A knife comes in handy for this, therefore the cave diver carries at least one cutting instrument. Hopeless entanglement also may involve a

degree of silting. In the ensuing limited viz, it becomes critical for the diver to know exactly how to cut the line, lest he lose it! Also, it is critical that the diver hold onto the section of line leading out of the cave. The neophyte would have extreme difficulty in this situation.

Because of the danger of entanglement, both cave and wreck divers seek to minimize the number of loose straps and hoses that are exposed from their person. Regulators must be retained close to the mouth and readily accessible in the event of an emergency. The gauge end of the high-pressure hose must be secured so that it can be viewed at a glance and remain free from becoming wedged in wreckage, rocks, or behind the diver. Loose straps should be taped to prevent line from being caught underneath. In the case of the fins, this is a very real concern because of the positioning of the diver's body in relation to the guideline. Tape also should be attached to the area of the fins where the strap holders connect to the foot pocket. Divers carrying goodie bags inside a wreck need beware sharp edges that may snag the bag, which may be difficult to free. Any loose objects carried by divers into overhead environments also pose the threat of creating a siltout when these objects brush against the floor or side.

The need for air is basic, and the devices that deliver it to the diver lie at the heart of SCUBA. When travelling into an overhead environment, two things must be accounted for: 1) plentiful air reserve must be available in case



Gary Gilliam and Gary Gentile display dishes recovered from the Andrea Doria. Note piles of dishes in foreground. Photo by Bernie Chowdhury.

of an emergency and 2) a method of dealing with all possible-air delivery failures must be arrived at well before such an incident occurs.

Air reserve is usually handled in two distinct ways by cave divers and wreck divers. The wreck diver may carry a totally redundant air supply in the form of a small bottle attached to the

primary tank. This is called a pony bottle and usually provides 15 or 30 cubic feet of air, depending on which size one buys. The Full Cave diver carries double tanks, usually attached with a dual-valve manifold. Many wreck divers also prefer to use doubles because it affords more air than a single with a pony. Double tanks allow the

diver to shut one valve off in the event of a first or second stage failure. New cave-diving guidelines stress that the Basic Cave diver is not to dive with doubles. In this case, the Basic Caver uses a single tank with a "Y" valve, which fits two first stages. ■

1991 MEMBERSHIP LIST

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**Cave Diving Section of the
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Please check the date on the first line of your mailing label. If it is earlier than "05-91" your membership/subscription has lapsed and you will be dropped from the official roster and mailing list. This will be your last issue. Delinquent instructors will be reported to the Training Chairman for suspension of certification privileges.



The Cave Diving Section
of the National Speleological Society

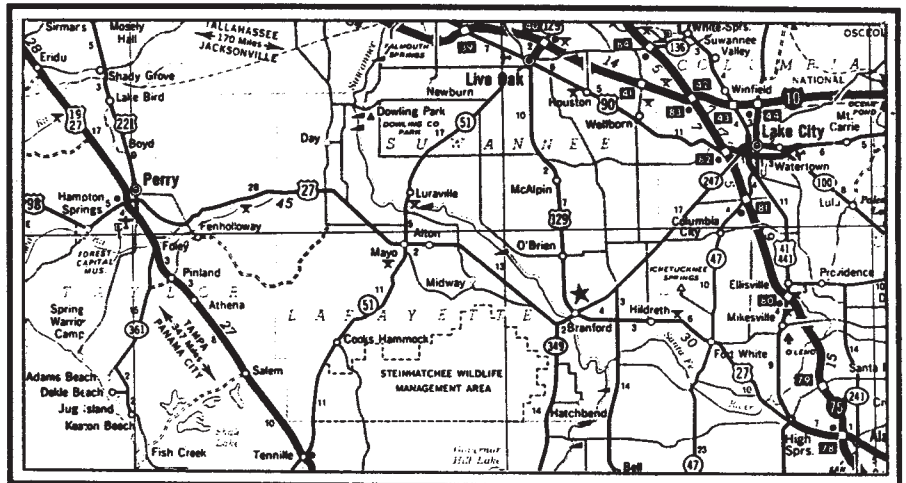
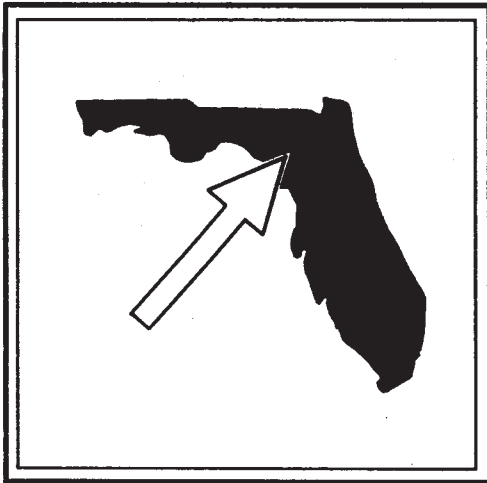
cordially invites you to its

37th CAVE DIVING WORKSHOP

“Back to Basics”

FRIDAY - MONDAY, MAY 24 - 27, 1991
at the Branford High School, Branford, Florida

Lectures, Videos, Diving, Recreation — Cave Divers, Open-Water Divers, & Non-Divers all Welcome!



WORKSHOP SCHEDULE

FRIDAY EVENING, May 24th

- 5:00 - 8:00 pm NSS-CDS Board of Directors Meeting - Dive Rite, Lake City
- 8:00 pm - ? **PARTY** hosted by **Steve & Judy Ormeroid** celebrating their 20th anniversary - "Jug" Tavern near Ichetucknee Springs State Park. Free food & beer, story telling, "liars" contest, open jam session.

SATURDAY, May 25th

- 8:00 am Workshop Registration, Coffee & Donuts
- 9:00 Introduction and Welcome - Terry DeRouin & Bill Foote, Workshop Chairmen
- 9:15 **"The Beginnings of the Cave Diving Section of the NSS,"** a perspective of the early days, by veteran cave explorer **Capt. John Zumrick, M.D.**
- 10:00 **"Why I'm Still Alive,"** a study of the Learning Curve, by the man who wrote the books on cave diving, premier explorer **Sheck Exley.**
- 11:00 **"Does the CDS Belong with the NSS?"** - an examination of our relationship with the National Speleological Society, by one our first instructors and an active dry caver **Wayne Marshall.**
- 12:00 noon **LUNCH** - Delicious Bar-B-Que Picnic catered by the Suwannee Cove Restaurant (*incl. in regis. fee.*)
- 1:00 pm **"Are Current Training Standards Adequate?"** - an Open Forum featuring four of our most involved and experienced instructors - **Sheck Exley, Joe Prosser, Mark Leonard, & Lamar Hires.**
- 2:00 Awards Presentations
- 2:30 **"The Basics of High-Performance Regulator Design & Field Reliability,"** by **Joe Schelorke** of Poseidon
- 3:15 Break
- 3:30 **"The Basics of Safety - Field Neurological Assessment & the Administration of Oxygen,"** by **Dr. Robert R. Clemons** as taught by Lifeguard Systems
- 4:15 **"The Basics of Compressor Design,"** by a representative of **Mako Compressors**
- 5:00 **"The State of the NSS-CDS,"** by CDS Chairman **Frank Howard**
- 5:30 - 6:00 General Membership Meeting
- 7:00 **Evening PARTY at Ginnie Springs** - catered Chicken Dinner, Refreshments, Videos and Fun!
(Add'l cost: Pre-registration - members \$5, non-mem. \$7; at the door - mem. \$7, non-mem. \$10)

SUNDAY, May 26th

- 9 am - 4 pm **Poseidon Repair Clinic** - A certification class in the rebuilding and repair of Poseidon Regulators, taught by **Joe Schelorke.** Dealer personnel only.
- 9 am - 4 pm **Survey Clinic** - Develop your map-making skills under the tutelage of the course's creators, **John Burge & Frank Howard.** \$15.00. *Basic Underwater Cave Surveying* - required reading.
- 9 am - 12 noon **Introduction to Cave Photography** - the basic skills for shooting quality photos in the cave's unique environment, taught by **Bob Janowski,** the Section's Photography Program Coordinator
- All Day **Guided Diving Tours** - for all levels of certified divers, from beginning cavern to side-mounts
- Santa Fe River Pontoon Boat Trip** - enjoy a relaxing tour of this beautiful Florida river
- Introduction to Cavern Diving** - your chance to try it safely with a certified Cavern Diving Instructor
- Santa Fe River Canoe Trip** - hosted by **Woody Jasper** of "Rescue 911" fame
- Aerial Reconnaissance of Karst Country** - with cave diver/pilot **Sheck Exley**
- "Caving Olympic Games"** - fun, games, and prizes for the whole family
- Afternoon **Race Watching** - **Mark Leonard** will again offer his "Indianapolis Race Commentary & Expert Analysis." Exciting, drama- and trauma-packed session at his house in front of his big-screen TV.
- 8:00 pm **Instructors Meeting** - Suwannee Cove Restaurant

MONDAY, May 27th

- 9 am - 4 pm **Nitrox Workshop** - the theory and application of Nitrox taught by **Mark Leonard.** \$75.00 - includes materials. Certification - additional \$15.00.
- 9 am - 4 pm **Field Assessment and O₂ Administration** - an accident management course taught by **Dr. Robert R. Clemons** as taught by Lifeguard Systems. \$99.00. CEU's available.
- All Day **More Guided Dives**



1991 NSS-CDS SPRING WORKSHOP — MAY 24-27, 1991 — PRE-REGISTRATION FORM

Clip and mail with your check or money order postmarked by May 15 to: NSS-CDS SPRING WORKSHOP, P.O. BOX 950, BRANFORD, FL 32008-0950

Pre-registration: NSS Member - Sat. & Sun. Daytime - \$15, Sat. Evening \$5; Non-member - Sat./Sun. Day - \$18, Sat. Eve. \$7
At the Door: NSS Member - Sat. & Sun. Daytime - \$18, Sat. Evening \$7; Non-member - Sat./Sun. Day - \$20, Sat. Evening \$10
Children age 5 to 12 \$5. Children under 5 free. Babysitting provided free of charge Saturday 8:00 am - 5:00 pm.

Please Print Very Clearly!

	NSS Member		Non-Member	
	Sat/Sun Days	Sat Eve	Sat/Sun Days	Sat Eve
Name _____	<input type="checkbox"/> \$15	<input type="checkbox"/> \$5	NSS # _____ /	<input type="checkbox"/> \$18 <input type="checkbox"/> \$7
Name _____	<input type="checkbox"/> \$15	<input type="checkbox"/> \$5	NSS # _____ /	<input type="checkbox"/> \$18 <input type="checkbox"/> \$7
<input type="checkbox"/> Survey \$15 <input type="checkbox"/> Nitrox \$75 <input type="checkbox"/> Nitrox with certification \$90 <input type="checkbox"/> O ₂ Administration \$99 <input type="checkbox"/> Child 5-12 years \$5 <input type="checkbox"/> Child 5-12 years \$5				
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