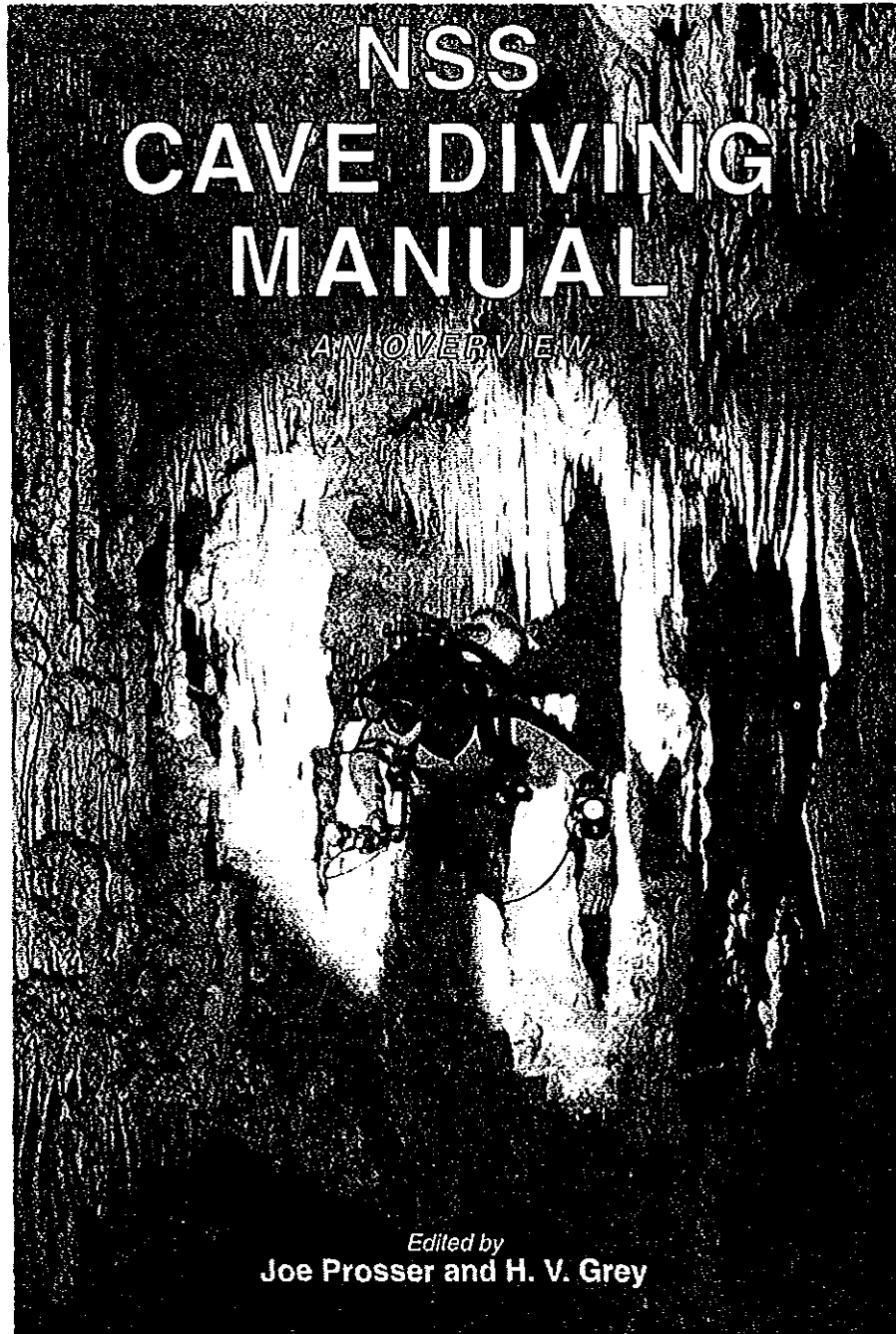




UNDERWATER SPELEOLOGY

National Speleological Society • Cave Diving Section

July/August, 1992 • Vol. 19, No. 4



The brand-new *NSS Cave Diving Manual - an Overview* is now available! Use the center publications insert to order.

UNDERWATER SPELEOLOGY

The official publication of the Cave Diving Section
of the National Speleological Society, Inc.
P. O. Box 950, Branford, FL 32008-0950

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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 formats. (Please contact the Editor directly for details and arrangements.)

Advertising — The NSS-CDS Board of Directors has approved the reinstatement 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 of the NSS Cave Diving Section to provide a vehicle for information exchange. Today, with over 750 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.

CARL SUTTON TO EDIT NEXT ISSUE

Our new Editor, Carl Sutton, will be producing our next issue of *Underwater Speleology*. Carl is an NSS-CDS Cave Diving Instructor living in Alachua, Florida, and brings to the job a lot of enthusiasm and a great love for cave diving. You can look forward to an exciting new look and approach for the newsletter. All articles, news items, announcements, letters to the editor, advertisements, cartoons, etc. should be sent directly to the new Editor. His address and phone are:

CARL SUTTON, EDITOR, UWS
P. O. BOX 869
ALACHUA, FL 32615-0869
904-462-1881 (day), 373-0215 (eve)

Carl says that he plans to have a "Forum" topic discussed

in each issue, which will include articles and interviews with instructors and other prominent divers. An important feature of the Forum will also be short responses from readers to topical questions. The Forum topic for the Nov./Dec. issue is "Air Management In Stage Diving." The question is "How do you plan your air for stage diving and why?" Brief, pithy answers are what are wanted here; no more than two paragraphs (the amount that would fit on a small note card or back of a post card). Carl needs these short responses no later than the first week of November.

Carl says he plans to use IBM Pagemaker and WordPerfect. Contact him if you are writing on a computer and have any questions about disk compatibility. Handwritten submissions are welcome if you don't have a typewriter or computer, but please be super-legible. ■

NO WINTER WORKSHOP THIS YEAR

This is just a reminder that there will be no CDS Winter Workshop this year. The CDS Board of Directors voted last year to forego the workshop traditionally conducted at the end of the year because of scheduling difficulties, the perennial problem of finding volunteers to organize the workshop, and the reduced need for a winter workshop because of the NACD workshop now generally being held in the late fall.

The next CDS-sponsored cave-diving workshop will be the Spring Workshop. While this has traditionally been held over the Memorial Day Weekend, there was some discussion of the desirability of changing the date, perhaps to some time mid-June. The Board will be finalizing the date in time for a firm date to be announced in the next newsletter. ■

NOMINATIONS NOW BEING SOUGHT FOR 1992 B.O.D. ELECTIONS

CDS Chairman Frank Howard has issued an official call for nominations for the 1992 elections for the CDS Board of Directors. Three two-year general Board positions will be opening up, as the terms of Bill Foote, Dan Lins, and H. V. Grey expire at the end of the year. The new Directors will begin their terms of office Jan. 1, 1993. (The positions of Chairman, Vice-Chairman, Treasurer and Secretary are determined by internal election by the Board of Directors.)

Both nominators and nominees must be current members in good standing of both the CDS and NSS. You are welcome to nominate yourself. All candidates will be given an opportunity to write a platform statement which will either accompany the ballots or be published in a concurrent issue of the newsletter.

Service on the NSS-CDS Board of Directors can be a very fulfilling and exciting way of contributing to the ongoing goals of the cave-diving community. But it is a serious responsibility and the decision to run should not be made lightly.

We face many challenges in the coming years. It will take a strong, hardworking leadership to successfully negotiate the many restrictions, entanglements, and silty waters that may lie ahead.

If you have questions about exactly what is involved in being on the Board, feel free to contact any of the current Board Members. Their names, addresses, and telephone numbers are listed on the inside cover.

Nominations must be received no later than Oct. 15, 1992. Self-nominating candidates will want to begin working on their platform statements right away. (See *UWS*, Vol. 18, No. 5, Sept./Oct., 1991 for some excellent examples of platform statements.) Non-self-nominated candidates will be contacted immediately to see if they want to accept the nomination, and all candidates will be apprised of the timetable for platform statements. Please send or telephone in your nominations as soon as possible to the CDS Secretary, H. V. Grey, P. O. Box 12, Nokomis, FL 34274-0012, 813-484-7834. ■

CDS SEEKS HALF-TIME PAID ADMINISTRATOR

The Cave Diving Section's Board of Directors is now actively seeking someone to fill a "half-time" (approximately 20 hours per week) administrative position.

The duties to begin with would be three-fold:

- **Processing the Mail** - sorting the mail that comes to the Section and forwarding items on to the appropriate Board Members and Program Coordinators.
- **Managing Publications** - maintaining inventory and processing orders for our steadily increasing supply of books, newsletter back issues, maps, T-shirts, and other items.
- **Assisting with Training Administration** - processing

certification cards and certificates and maintaining training records.

The position will be supervised by the Chairman. While a knowledge of cave diving and familiarity with the Section's general operation would be helpful, they are not necessarily essential.

Interested persons should contact the Chairman:

Frank Howard
334 Portico Ct.
Chesterfield, MO 63017
314-469-6133
314-542-0838 Fax ■

REPORT FROM THE HEARTLAND OF THE KARSTLAND - THE 1992 NSS CONVENTION

by Steve Ormeroid (NSS #19017)

The NSS Cave Diving Section was once again well received and honored at the annual gathering of the nation's (and some of the world's) most interesting and dedicated cavers. For those of you who have not participated in a mass gathering of our fellow dry (?) cavers, it can truly be a calliope of sights, sounds, images, and of course, cave lies (or is that stories?). Each convention has its own flavor and highlights. The caves of southern Indiana provided lots of high-spirited adventure in stream and mud-filled passages.

Workshops, seminars and presentations on all aspects of caving provided more education and entertainment than it was possible to absorb in one week. The Cave Diving session presented slide shows and talks by Dr. Noel Sloan (rebreathers); Mark Pansing (Perry's Cave, Ohio); Steve Maegerlein (Indiana cave diving); Bob Janowski, Eric Hutchinson and Tom Morris (Florida springs); and Steve Ormeroid (Cozumel diving).

The most exciting part of the Convention was seeing many of our fellow cave divers honored for their dedication to speleology. The NSS's "Outstanding Service Award" was bestowed upon our Section's founder, Sheck Exley. Our previous Training Chairman, Joe Prosser, was made a "Fellow of the Society." Eric Hutchinson received an honorable mention for his underwater cave maps. Ron Winiker and Mike Madden won the Best of Show Medal for their underwater cave slide. Paul Smith came in second in his age group in the vertical contests. And finally, a cover of *Underwater Speleology* won a Green Ribbon in the Newsletter Competition.

All of this and many wonderful evenings at the campground parties convinced me once again that our underground world is very special and deserves all the care we can give it. ■

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NEW IDENTIFYING STICKER FOR ABE DAVIS RECIPIENTS

As more guided dives are being conducted at advanced cave-diving sites, the CDS leadership has perceived a need to establish qualification and experience parameters beyond just the completion of the Full Cave course. On several of the guided dives held in conjunction with Workshops, receipt of the Abe Davis Award (for completion of 100 safe cave dives) has been stipulated as a requirement for participation.

As attempts are being made to gain controlled legal access to several sites that are not suitable for novice cave divers or students, it is possible—even likely—that proof of receipt of the Abe Davis Award (or equivalent) may be built into the requirements for access.

In anticipation of these developments, Training Chairman Lamar Hires has devised a special Abe Davis sticker to be applied to cave-diving certification cards. The sticker is available to Abe Davis Award recipients and may be obtained by

sending a self-addressed, stamped envelope directly to:

Lamar Hires, NSS-CDS Training Chairman
Rt. 14, Box 162
Lake City, FL 32055

The sticker has been devised as a service and a courtesy to cave divers. As such, there is no charge for the sticker, except the requirement that you pay for the postage by sending in a self-addressed, stamped envelope. The stickers will not be mailed out without receipt of this self-addressed, stamped envelope, and we request that people please not plague Lamar with telephone calls asking him to mail them the sticker without the appropriate return envelope.

Our records show that at press time the following people have received the Award and qualify for the sticker:

Jeffrey Addis	Dardan Davis	Mark W. Happe	James J. Lockwood	Barbara Rayette Smith	Harve Thorn
Walter Anderson	Fred Davis	John Harper	Dan Loeder	John Reekie	Toni Thorn
William Aydtlett	Johanna De Groot	Jeffrey Haupt	Douglas MacDonald	Jack Rensch	Lee Tighe
Lloyd Bailey	Doug Del Castillo	Ruby Haupt	Stephen Maegerlein	David W. Rhea	Julius Tomsits
Jack Banbury	John P. Delaney, III	Wayne Head	Bill Main	Peter Rich	Howard B. Tower, Jr.
Dave Banks	Paul DeLoach	Arthur Heard	Dale Malloy	Don Rimbach	John E. Townes
David Banks	Curt DeRemer	Arthur M. L. Hearl	David Manor	James Robinson	Terry Turner
Alan Barefoot	Terry Derouin	Alan C. Heck	Jim Maranville	Robert Rodgers	Terrence Neal Tysall
John Bateman	David Desautels	Paul Heinerth	Scott Marion	Chris Rouse	Charles Vallance
Reginald Batten	Roderick S. Dickens	Charles Heller	Harris Martin	Christopher Rouse, Jr.	Carol Vilece
Grace T. Bays	Laurance P. Dickie	Eugene Hellwig	Vaughan Maxwell	William Royal	Ralph Walter
Scott A. Bays	Sammy L. Diperna	India Hendley	Mike McCaskell	George Ryschkewitsch	William Walters
Judith A. Bauer	Ed Dixon	Ronald Hendley	Thomas E. McDonnell, Jr.	Wunhild Ryschkewitsch	Karen Wark
George Benjamin	Douglas Duerloo	Lewis Henkel	Robert McGuire	Dayton Saltsman, Jr.	Barry Warner
Mark Black	Robert Duncan	Mark Hermerding	Steve L. Meadows	Buddy Sanders	Bill Warner
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Jeffrey Bozanic	Mary Ellen Eckhoff	Hilaire Hiler	Paul Meng	Peter R. Schulz	Arthur M. Watson
Danny Brass	David Engelbrecht	Kenneth E. Hillier	Roger L. Miller	Ralph Selfridge	Pat Watson
Larry I. Briel	Jack Evans	Lamar Hires	Robert F. Millott	William Shane	Hal D. Watts
George Brkich	Sheck Exley	Dennis Holden	Gil Milner	Norman Sheridan	Dianne Weatherford
Mary Brooks	Jack Faver	Legare Romig Hole, III	Mario Mitchell	Wendy Short	Wayne Weatherford
Gene Broome	William K. Fehring	Chuck Holzer	Terry More	Ron Simmons	Roger H. Werner
John Burge, Jr.	Samuel R. Ferra	Frank Howard	Leon Morrison	Linda Sirota	David Whall
John Bussell	Vince Ferris	Steve Hudson	Tom Mount	Phillip Sirota	Charles Williams
Daniel Butler	David W. Fisk	Bill Hufet	Zdenka Mount	Terri Skiles	Dennis Williams
Peter Butt	Frank Fogarty	Akira J. Ikehara	Milledge Murphey	Wes Skiles	Richard Williams
David Cameron	Steve Forman	David R. James	James Nangle	Barbara Smith	Forrest Wilson
Brantley Carter	Carl C. Fowler	John Jay	Henry Nicholson	Courtland W. Smith	William Wingate
William Cass	Eric Freedman	Tracy Jay	Michael O'Leary	Gordon Smith	Ronn Winiker
William Cate	Bob Friedman	Wally Jenkins	William Oigarden	Paul Smith	John Wittersheim
J.W. Chalkley, III	Sue Friedman	Charles Jones	John W. Orlowski	William Smith	James B. Womack
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Lorie Beth Conlin	Kim Gissendanner	George Krasle	Teresa Petty	Charles Sturdevant	Troy Young
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ABE DAVIS AWARD APPLICATION

The Abe Davis Safety Award is presented to cave divers who demonstrate a genuine dedication to safety by completing at least 100 safe cave dives. Membership in the CDS is not a requirement. Cave divers who have completed 100 safe cave dives may apply for the award by completing the

application below and sending it to:

Wendy Short, Abe Davis Award Coordinator
12745 Sand Ridge Dr.
Jacksonville, FL 32258

NSS-CDS ABE DAVIS CAVE DIVING SAFETY AWARD APPLICATION

Having completed and logged 100 safe cave dives, I, _____ (name as you want it to appear on certificate), do hereby apply for the *Abe Davis Safe Cave Diving Award*, presented by the Cave Diving Section of the National Speleological Society, Inc. I agree to have my name added to the list of other award recipients.

My 100th cave dive was at _____ (name of cave and location), with _____ (partner[s]) on _____ (date).

Signed: _____ Printed or typed Name: _____

Printed or typed Address: _____

Being familiar with the applicant, I, _____, confirm that he/she has made and logged 100 safe cave dives.

Signed: _____ Printed or typed Name: _____

Printed or typed Address: _____

Mail application to: Wendy Short, Abe Davis Award Coordinator, 12745 Sand Ridge Dr., Jacksonville, FL 32258. ■

DONATIONS STILL NEEDED FOR PARKER TURNER MEMORIAL FUND

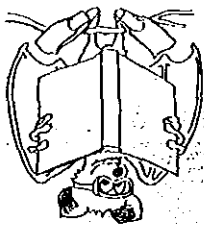
While the Cave Diving Section's \$1,000 contribution to the Parker A. Turner Memorial Scholarship fund put it past the \$5,000 halfway point, donations are still needed to reach the \$10,000 required for the fund to be established successfully. The deadline is Dec. 31, 1992.

The scholarship fund was created last year after Parker's accidental death due to a massive geological collapse and landslide at Indian Springs near Tallahassee November 17, 1991. Parker was well liked and respected as one of the leaders in underwater-cave exploration and safety promotion. In addition to his many important leadership roles in the NACD, Parker was the Coordinator of the Woodville Karst Plain Project and Coordinator of the Underwater Speleological

Unit for Florida State University.

CDS Board Member Kelly Brady has been active in promoting the success of the fund and would like to urge all CDS members and UWS subscribers to make a contribution to the fund in Parker's memory. All contributions are tax deductible and should be sent to:

Parker A. Turner Memorial Scholarship
c/o Annette Weglinski
Florida State University
College of Arts and Sciences B-155
Tallahassee, FL 32306 ■



BOOKS

NSS Cave Diving Manual - an Overview

edited by Joe Prosser and H. V. Grey

19 chapters on all phases of cave diving including dive planning, equipment configuration, decompression, mixed-gas use, emergency prevention, sump diving, hydrogeology, biology, photography, surveying, and history, written by leading North American cave divers and technical experts. NSS-CDS, 1992. 411 pages, 5-1/2" x 8", softcover.

Item Number 40120
Non-Member \$ 28.00
Member \$ 25.00

NSS Cavern Diving Manual

by John Zumrick, M.D., Joe Prosser and H. V. Grey

The standard reference work on cavern diving. Covers most of the underlying principles behind safe cave diving as well. NSS-CDS, 1988. 121 pages, 5-1/2" x 8-1/2", softcover.

Item Number 40100
Non-Member \$ 15.00
Member \$ 13.00

Basic Cave Diving - a Blueprint for Survival

by Sheck Exley

5th edition of a "must-read" classic. Extremely clear presentation by our premier explorer of the basic rules of cave diving derived from accident analysis. NSS-CDS, 1986. 46 pages, 5-1/2" x 8-1/2", softcover.

Item Number 40200
Non-Member \$ 7.00
Member \$ 6.00

NSS Student Cave Diver Workbook

edited by Mark Leonard and Lamar Hires

Revised and updated student workbook for Full Cave Diver training. Contains Cavern, Intro to Cave, and Full Cave course outlines and tests — plus numerous in-depth articles, appendices and maps of several popular systems. NSS-CDS, 1991. 113 pages, 8-1/2" x 11", softcover.

Item Number 40300
Non-Member \$ 15.00
Member \$ 13.00

Cave Diving Communications

by Joe Prosser and H. V. Grey

Comprehensive, illustrated text covering all forms of communications in underwater caves: light signals, hand signals, touch contact and slates, with a special chapter on the use of lines and reels. NSS-CDS, 1990. 68 pages, 5-1/2" x 8-1/2", softcover.

Item Number 40900
Non-Member \$ 8.00
Member \$ 7.00

Hand Signals for Diving

by Claudette Finley, Jamie Stone and Carol Vileco

The original book on underwater communications. Hundreds of illustrations. Still highly valuable today. NACD, 1977. 38 pages, 5-1/2" x 8-1/2", softcover.

Item Number 40400
Non-Member \$ 8.00
Member \$ 7.00

Deep Diving

by Bret Gilliam and Robert Von Maier,
with John Crea and Darren Webb

An advanced guide to deep-diving physiology, procedures and systems, with chapters on equipment, stress, nitrogen narcosis, oxygen toxicity, nitrox, mixed gas, computers, and stage decompression. Watersport Publishing, 1992. 254 pages, 5-1/2" x 8-1/2", softcover.

Item Number 40111
Non-Member \$ 22.00
Member \$ 20.00

Basic Underwater Cave Surveying

by John Burge

Everything you could possibly want to know about surveying underwater caves. Sets the standard for the NSS-CDS Survey Course and all underwater-cave survey procedures. NSS-CDS, 1987. 134, 6" x 9", softcover.

Item Number 40500
Non-Member \$ 15.00
Member \$ 13.00

Recovery Diver Operations Manual

by Capt. Henry Nicholson and Joe Prosser

Standard text and reference for the Rescue/Recovery Course. NSS-CDS, 1988. 16 pages, 8-1/2" x 11", softcover.

Item Number 40600
Non-Member \$ 12.00
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Deep Into Blue Holes

by Rob Palmer

A profusely illustrated (many photos in color) account of the British expedition to Bahamian blueholes by one of the world's leading cave divers. Unwin-Hyman, 1989. 164 pages, 7" x 10", hardcover.

Item Number 40700
Non-Member \$ 45.00
Member \$ 40.00

The Cave Diving Group Manual

edited by F. B. Balcombe, J. N. Cordingley,
R. J. Palmer, R. A. Stevenson, and B. Bradford

The official British manual covering all aspects of the British tradition from history, equipment, and techniques, to photography, sump diving, and mixed gas. Numerous diagrams and photos (many in color). Castle Cary Press, 1990. 268 pages, 6" x 8-1/2", softcover.

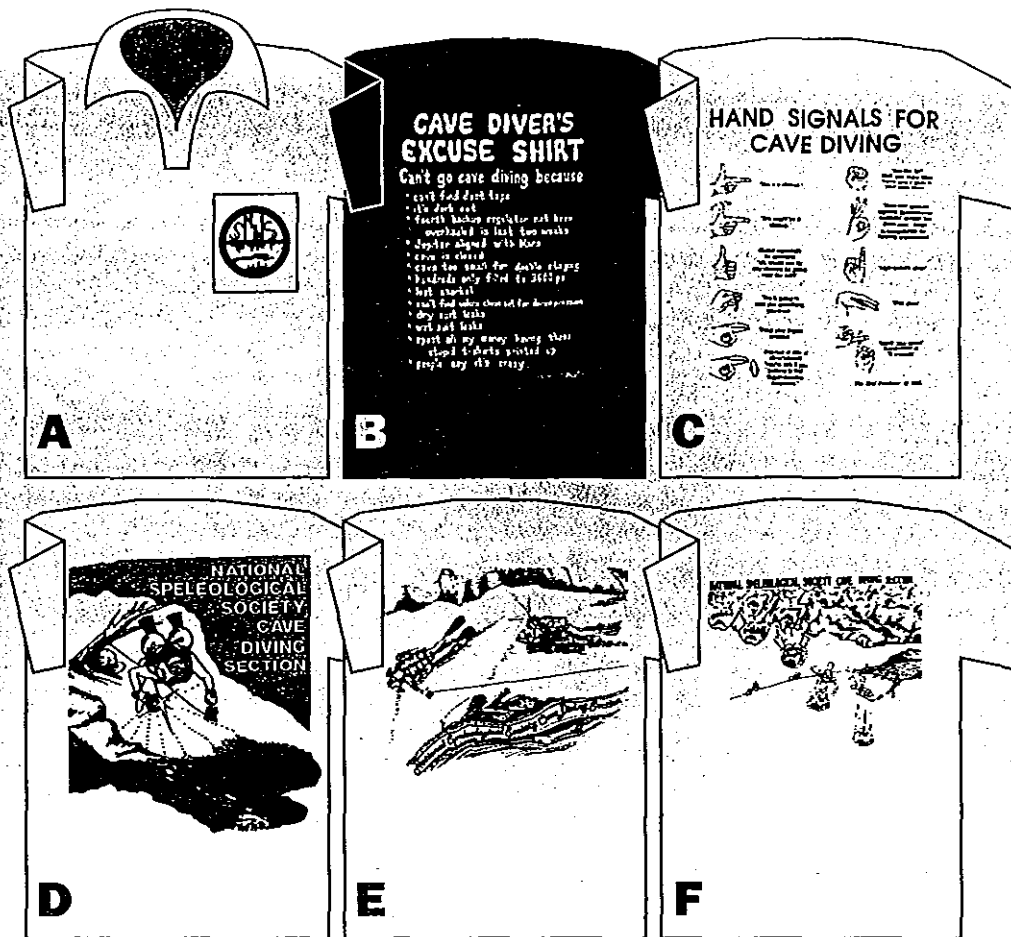
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The Darkness Beckons

by Martyn Farr

Revised and expanded version of the 1980 book on the history of cave diving by one of Britain's foremost divers. Hundreds of photos (many in color). Daldem, 1991. 280 pages, 8" x 10", hardcover.

Item Number 40110
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Single Diver T-Shirt (Long Sleeve)	60520	17.00	14.00
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NSS-CDS 2-color adhesive Decal	50001	\$ 3.00	\$ 2.50
NSS-CDS 4-color cloth Patch	50002	4.50	4.00
"I Support Safe Cave Diving" Bumper Sticker	50003	3.00	2.50
Wall-size Training Certificates	50004	12.00	10.00

(attach a copy of your CDS certification card for level of training requested)

MAPS

Having NSS-CDS maps of Florida's most popular cave and cavern systems enhances the planning, safety, and enjoyment of your dives.

NSS-CDS maps are available in two formats: poster-size blueprint-type "bluelines," and laminated 8-1/2" x 11" note-book-size sheets.

CERTIFICATION REQUIREMENTS

The cave maps are available to all certified cave divers (certified cavern divers may order either of the two cavern maps). Just enclose a photocopy of your certification card with the order form on the next page.

THE MAPS ARE NOT FOR RESALE

These maps are protected by copyright laws. They may be purchased only from the NSS Cave Diving Section. The maps may not be offered for resale by dive stores, instructors, or other individuals or organizations.

CAVE	Florida County	Blueline	Laminated
Blue Hole (Jug Hole)	Columbia	70001	71001
Blue Spring (Madison Blue)	Madison	70002	71002
Bonnet Spring	Suwannee	70003	71003
Cow Spring	Suwannee	70004	71004
Green Sink	Lafayette	70005	71005
Little River	Suwannee	70006	71006
Peacock Springs	Suwannee	70007	71007
Rock Bluff	Suwannee	70008	71008
Twin Springs	Jackson	70009	71009
Telford Spring (lower section)	Suwannee	70010	71010

CAVERN

Ginnie Spring	Gilchrist	75001	76001
Morrison Spring	Walton	75002	76002

MAP PRICES

Non-member - any quantity	\$ 8.00	\$ 10.00
Member - single map order	7.00	9.00
Member - 2-3 maps per order	6.00	8.00
Member - 4-5 maps per order	5.50	7.50
Member - 6+ maps per order	5.00	7.00

NSS POLICY FOR CAVE CONSERVATION

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.

Accordingly, the intention of the Society is to work 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 causes 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 its enjoyment and interpretation. Therefore, caving parties should leave a cave as they find it. They should provide means for the removal of waste; limit marking 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.

Scientific collection is professional, selective and minimal.

The collecting of mineral or biological material for display purposes, including previously broken or dead specimens, is never justified, as it encourages others to collect and destroys the interest of the cave.

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 providing 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.

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. *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.*

PUBLICATIONS ORDER and MEMBERSHIP APPLICATION FORM

— Send completed forms to —

NSS CAVE DIVING SECTION • P. O. BOX 950 • BRANFORD, FL 32008-0950 U.S.A.

PLEASE TYPE OR PRINT VERY CLEARLY:

Name _____

Address _____

City _____ State/Province _____ Zip/Postal Code _____

(U.S. residents please use 9-digit zip if known)

Country _____

Home Phone _____ Business Phone _____

(If applying for membership, please indicate if you do not wish to have either or both telephone numbers appear in the membership roster published annually)

Today's Date _____ NSS # (required for discounts unless applying) _____ Expiration Date _____

If applying for NSS membership, please read the NSS Conservation Policy on previous page.

"I have read the NSS Conservation Policy, and in support thereof, I hereby apply for membership." SIGNATURE: _____

Item Number	Size	DESCRIPTION (please print clearly)	Quantity	Cost (each)	TOTAL

SUBTOTAL

Florida residents add 6% sales tax or include copy of resale certificate. TAX

Prices include shipping in the U.S. via 4th-class mail. Foreign orders add 10%. SHIPPING

IF APPLYING FOR MEMBERSHIP, PLEASE READ THE FOLLOWING ABOUT MEMBERSHIP CATEGORIES CAREFULLY:
 The NSS Cave Diving Section is an independently incorporated suborganization or "section" of the much larger caving organization, the National Speleological Society, Inc. (or "NSS"). As such, the NSS Cave Diving Section is beholden to the Bylaws of the NSS. These Bylaws require that members of sections, such as the Cave Diving Section, simultaneously be members of the parent organization, the NSS. If you are not already an NSS member, this application form allows you to join both at the same time if you wish. Or you may just subscribe to the CDS's newsletter, *Underwater Speleology*. Subscribers do not have to be members of either the NSS or CDS. (Subscription to *Underwater Speleology* is included as a benefit of CDS membership.)

NSS MEMBERSHIP (annual) — includes 12 issues of the NSS caving magazine, <i>NSS News</i> ; 1 issue of the <i>NSS Technical Bulletin</i> ; NSS voting privileges; and publications and convention discounts. Open to any interested individual. (Read notice about conservation policy and sign above.)	\$25.00	
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CAVE DIVING SECTION MEMBERSHIP (annual) — Must be an NSS member or NSS family member — includes 6 issues of the CDS newsletter, <i>Underwater Speleology</i> ; CDS voting privileges; and publications and workshop discounts. Open to any interested NSS member or individual applying for NSS membership simultaneously. Give your NSS # _____ and Expiration Date _____ if not applying at this time.	10.00	
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NSS FAMILY MEMBERSHIP (annual) — includes NSS voting privileges, and publications and convention discounts. (Does NOT include receipt of NSS publications.) Open to any interested spouse, son, or daughter of anyone currently an NSS member or applying NSS membership at this time, who resides in the same household. Name of New NSS Family Member _____ Name and Kinship of present NSS Member _____ NSS# _____ Expiration Date _____	5.00	
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CDS NEWSLETTER SUBSCRIPTION ONLY (annual) — 6 issues of the CDS newsletter, <i>Underwater Speleology</i> . (CDS Members automatically receive <i>Underwater Speleology</i> , so it is NOT necessary to subscribe in addition to joining. Do one or the other, but not both.)	20.00	
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FOREIGN POSTAGE SURCHARGE for CDS Membership or Newsletter Subscription outside of U.S.	10.00	
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TOTAL

Enclose a check or money order made out for U.S. funds. (Include an additional \$10 bank processing fee for checks or money orders drawn on non-U.S. banks.) Checks returned for insufficient funds must be covered promptly. In addition, you must reimburse the CDS for any bank INF check charges it incurs (currently \$20). Send completed forms to: NSS Cave Diving Section, P. O. Box 950, Branford, FL 32008-0950, U.S.A. Orders and memberships are processed by volunteers. Please allow 6 - 8 weeks for processing.

DISCOVERY OF PREHISTORIC PAINTINGS BY CAVE DIVING: LA GROTTTE HENRI-COSQUER

by Marc Van Espen

[Translated and revised by Oliver Wells from: *Hippocampe* (Seahorse), Bulletin de la Ligue Francophone de Recherches et d'Activités Sous-Marines, affiliated with la Fédération Belge de Recherches et d'Activités Sous-Marines (founding member of C.M.A.S.). No. 137, February/March 1992.

ABOUT THE AUTHOR: Marc Van Espen is a cave explorer and scuba diver from Brussels, Belgium. His diving affiliations include Les Hydronautes - LIFRAS (CMAS), and his caving affiliations include Speleo Club de l'Université de Louvain (SCUCL) and UBS (UIS).]

SUMMARY

The discovery of an underwater cave in the Mediterranean close to Marseille has created a great deal of excitement in the international scientific community. A dry inner chamber contains dozens of paintings and wall carvings (i.e., it is a classic). It has been designated part of the cultural heritage of France, like Lascaux ("Lascaux Sous la Mer"). The underwater entrance to the cave has now been closed with rocks in a steel net, but is due to be temporarily reopened for a return scientific visit in the coming months.

INITIAL EXPLORATIONS

The entrance to the cave is in the sea under a cliff at a depth of 38m. It can only be reached from the sea by boat and if the wind is favorable. A slowly rising tunnel 2-3m in diameter by 200m long ends at a depth of 14m at the lowest point of a totally submerged chamber with underwater stalactites. An ascending route along the ceiling leads to an underground lake with an air space. A rocky beach gives access into a dry cave 60m long and 20m wide divided into two main rooms.

Henri Cosquer is a certified professional diver and diving instructor. He operates the "Centre Cassidain de Plongée" in Cassis, which is a diving center with a scuba school. He found the entrance to the cave in 1985 and made a solitary exploration as far as the totally submerged chamber described above. He had a single flashlight that failed at that point. He got out because he is a very good diver. He had no line and just an illuminated electronic depth gauge. So he swam in circles at the correct depth until he found the entrance passage. He followed this downwards until he could see some blue light. (Usually the water is clear if the diver is careful, but inexperienced divers can create a total black fog....) After this initial discovery he could not return immediately because of his activities as a professional diver.

I have been diving at Henri's Center since 1988. Working in Paris at this time, it was quite easy to visit Cassis for extended weekends on the French high-speed train (300 km/h!).

My brother, Bernard, lives in Brussels and we went on diving holidays once a year in Cassis. Also, I have been cave diving since 1984 in Belgium and France. In 1990 we took our cave-diving equipment to visit Bestouan and Port-Miou Rivers. Henri asked us to lay a safety line in his cave.

In July 1990 the wind conditions were favorable and I dove with Bernard to fix a guideline in the entrance passage. This made it possible for the exploration to proceed without danger. We were equipped with our usual cave-diving equipment: twin back-mounted bottles, each with its own independent regulator and pressure gauge; helmet; 4 lamps; compass; wire cutters; knife; decompression computers; and line reel.

After laying 120m of line we entered the chamber described by Henri but could not see any way on. The line was too short to go further. Prudence told us to turn back. We left the line in place for a return trip.

I returned in June 1991 with Henri. We went together along the passage to the end of the line. We attached a new line and 15m further along entered a subterranean lake with an air surface. A sort of beach allowed us to set foot in a large chamber with a column in its center. The chamber is roughly oval in shape and 60m long. Most of the ceiling is very close to the ground. The general appearance made me think of the Pentecost Chamber in the Caves of Han (Belgium). We marvelled at the beauty of the stalactites and the draperies which adorn the ceiling. One column is decorated with buds of aragonite. We looked for a continuation or another siphon but could not find any. After marvelling for a half hour we left, having decided to visit the cave again to explore in greater detail and take photos.

THE DISCOVERY OF CAVE PAINTINGS

Henri returned in July 1991 with diving instructors Cendriline, Yann, Olive and Pascale from his Diving Center. While taking the second set of photographs, he saw a negative hand on the wall and photographed it. When the slides were later projected on a screen they saw that there was not one hand but four! They started to read all the books on prehistory they could find and finally realized what they had discovered.

They returned in August 1991 to take photos and record images on video. A cavalcade of improvised carts was taken into the cave to carry the equipment to record the discovery. There was general euphoria. They saw horses, bison, hands and engraved designs. On returning to the boat they were asking themselves if they had been dreaming.

On 1 September 1991 I returned to Cassis, accompanied by an Italian cave diver, with the object of entering the cave to make a survey and to take photos. However, our arrival coincided with a tragic accident, but we arrived too late to do

anything about it. This was unconnected with the exploration of the cave and the individuals were intending only a sea dive. We were told that four divers (one a beginner) had entered by mistake into the entrance tunnel and had gone in only a few meters, where three of them drowned in a small chamber. The head of the group found a way out in spite of an almost total lack of visibility caused by stirred-up silt. Two of the divers were found at 30m and one at 50m along the tunnel. One of the divers had no watch, no depth meter and no light. It is believed that they were blinded by stirred-up silt.

On 3 September 1991 Henri announced his discovery to the Département de Recherches Archéologiques Sous-Marines (DRASM) du Ministère de la Culture. On the instructions of Robert Lequement, Director of DRASM, the French Navy assembled a team of divers to conduct the first scientific mission. On 19 September 1991 they explored the cave for 45 hours. They were supported by the Archeonaut, the DRASM's scientific ship. Jean Courtin, a French scientist, being the only specialist in prehistory with diving experience, was invited to join the team to authenticate the paintings. He was amazed. "It is the most wonderful day of my life," he said to Henri. He identified the paintings "with 99 percent certainty" as being between 12,000 and 20,000 years old.

At the end of September 1991 the French Minister of Culture Jack Lang classified the cave as a national historical monument and gave it the name La Grotte Henri-Cosquer. It has now been closed for conservation reasons and to avoid any possible accidents.

CONCLUSION

The paintings discovered in La Grotte Henri-Cosquer are of great importance. It is the first time that cave paintings have been found in the southeast of France and scientists must now revise their opinions about the prehistory of the

region.

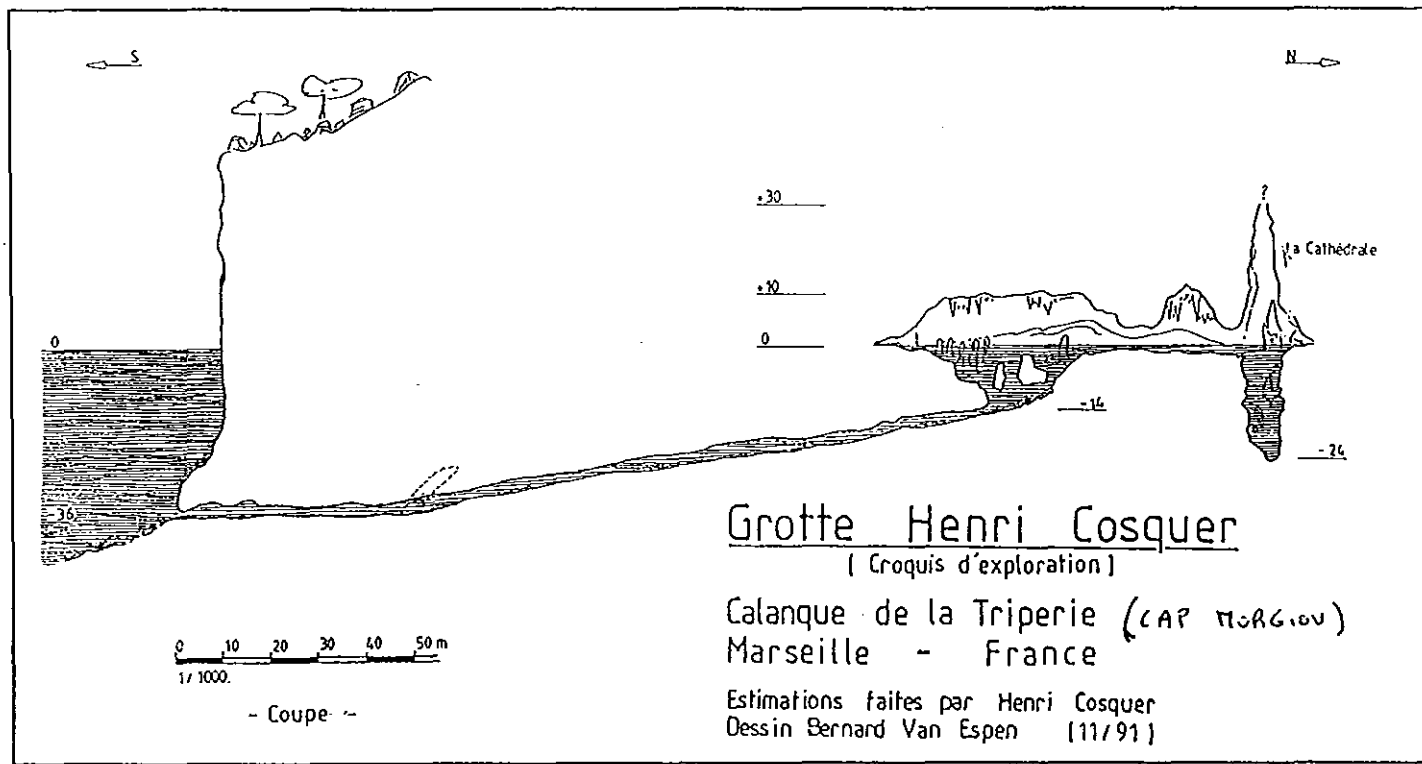
According to carbon-14 dating, the paintings are 18,440 years old; that is to say, of the late paleolithic age during the glaciation of Wurm. At that time the sea was 120m lower than today and the Gulf of Lion was a vast steppe dominated by limestone mountains. The climate was similar to that in present-day Scandinavia. The submersion of the cave entrance was caused by the rising of the sea level around 10,000 years ago.

The paintings were executed in wood charcoal and manganese oxide and represent the animals traditionally found in prehistoric paintings in French caves: horses, bison, foxes, deer and stags. One curious animal might be either a penguin or a seal. Henri named it "Marin-Gouin." Jean Clotte, Director of Antiquities in Toulouse, sees in the paintings numerous similarities with Pyrenean and Iberian parietal art. However, some of the paintings resemble nothing previously known, like the bison represented with three-quarters face.

The studies of underwater archaeology in which Jean Courtin has participated have revealed traces of human occupation in other neighboring undersea caves. Frédéric Dumas has described searches for such evidence in the Grotte de la Trémie in his book, *Angoisses Sous la Mer*.

A scientific committee has been formed to establish guidelines for the study of La Grotte Henri-Cosquer. There are no paleontologist divers and access to the cave therefore presents a problem.

They are considering drilling an access tunnel. This is a risky decision since it might alter the climate of the cave. We would prefer that the visits to the cave should be restricted to those who are capable of going there: cave divers. But one must not dream. The present level of scientific interest is so high that an easy access will be found. In any case, like Lascaux, the public cannot be permitted to visit such a fragile prehistoric cathedral. ■



INSURANCE FOR CAVE INSTRUCTORS — THE RIGHT CHOICE

by Bob Maufroy (NSS #21506)

Let's face it, in today's litigious society, having liability insurance while teaching cave diving and other advanced specialties is no longer a nicety, it's a necessity! A minor incident while diving can easily result in a lawsuit, given the right (or wrong) set of circumstances!

Cave-diving organizations have frequently tried to obtain liability insurance for their instructors, only to run up against the numbers game. Simply put, there are not enough Cave Diving Instructors to make us a desirable group to insure.

Fortunately, NAUI offers insurance to Cave Diving Instructors who are also NAUI members. All you have to do to get

this insurance is to be sanctioned by NAUI to teach these specialties.

If you're interested in taking advantage of this insurance, consider attending an Instructor Crossover Course and then applying to NAUI for permission to teach these specialties. If you are an NSS-CDS or NACD Cave Instructor, approval is almost guaranteed. For further information contact:

Bob Maufroy
11225 S.W. 128th St.
Miami, FL 33176
305-253-9065 ■

THE SAFETY LINE

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

I've always thought that cave diving was not just an adventure, but a lifestyle. There are different degrees of caving fever, and once you catch it you usually don't get rid of it. It defies logic and reasoning, like most fanatical addictions do. How do you know if you have the "bug"? Here are some of the symptoms:

- You have more air cards than credit cards.
- You have no empty outlets in your home because your light and scooter chargers are plugged in everywhere.
- You believe in redundancy and get two of everything, even if it's not related to cave diving.
- You drive either a van or a truck.
- You can repair anything with duct tape and wire tires.
- You see your caving buddies more than you see your family.
- You hock your valuables to buy another necessary piece of equipment.
- You have a partial hearing loss due to excessive diving.
- The sides of your vehicle are scratched up from driving through woods.
- All the pictures hanging on your walls are cave maps.
- You start wearing T-shirts and swim suits to work.
- Your conversation is limited to words like decompression, thirds, phreatic, psi, reel, push, and karst.
- You write your interoffice memos on a slate.
- You want to buy a "cabin" either on the river or with its own private sinkhole.
- You find yourself pumping air into your pajamas to get up in the morning.
- The value of all your cave-diving gear is equal to the

gross national debt.

- Monday morning you're planning on where to cave dive that weekend.
- You have permanent mask marks on your face.
- You are constantly robbing the C-size batteries out of your kid's toys.
- You can't relate to the open-water community very well anymore.
- You have more dives logged than money in the bank.
- You feel cheated if your tanks are only filled to 3000 psi.
- A "short" bottom time is in the triple digits.
- The meanings of "small," "deep," "tight" and "penetrate" have nothing to do with sex.
- Unless a pressure gauge goes to 4500 psi, you wouldn't consider buying it.
- When trying to calculate thirds, equivalent air, or a nitrox mix, you wish you'd paid more attention to high-school math.
- Your gear never completely dries out, and you have black life forms growing on it as a result.
- You suddenly acquire an interest in geology and physics.
- Your definition of "small" changes each time you dive.

Most cave divers have some form of diving fever. There is no cure for it; you can only try to relieve it. The only solution is to dive as much as possible and get a fix. You can also share your "problem" with others in the same situation. Either way, once your affected (or infected), it's there to stay! ■

CDS INSTRUCTOR ROSTER

TRAINING CHAIRMAN: Lamar Hires, #191, Cave Instructor, DPV Pilot, Sidemount & Stage Diving Instructor
Rt. 14, Box 162, Lake City, FL, 32055, 904-752-1087 (bus), 904-755-5913 (res)

NOTE: The designation "Cave" Instructor is a higher ranking one which encompasses "Cavern" Instructor. The designation "Sponsor" indicates that the instructor is qualified to instruct and sponsor new instructor aspirants. This list is current as of August 15, 1992.

- Averill, Harry, #218, Cave Instructor & Sponsor, Pro Dive - Bahla Mar Resort, 801 Seabreeze, Ft. Lauderdale, FL, 33316, 305-761-3413 (bus)
Bailey, Jr., Lloyd W., #172, Cave Instructor & Sponsor, Lloyd Bailey's Scuba, 3500-F N.W. 97th Blvd., Gainesville, FL, 32605, 904-332-0738 (bus)
Berman, Steven J., #219, Cave Instr. & Spon., DPV Pilot & Stage Diving Instructor, Ginnie Springs, 7300 N.E. Ginnie Springs Rd., High Springs, FL, 32643, 904-454-2202 (bus), 454-4811 (res)
Booth, Brenton C., #241, Cave Instr. & Spon., DPV Pilot & Stage Diving Inst., 7300 N.E. Ginnie Springs Rd., High Springs, FL, 29527, 904-454-2202 (bus)
Booth, Christina S., #242, Cavern Instructor, Myrtle Beach Scuba, 3307 Longwood Ln., Conway, SC, 29527, 803-448-2832 (bus), 248-5403 (res)
Bowden, James L., #226, Cave Instructor & Sponsor, P. O. Box 49461, Austin, TX, 78765, 512-928-4727 (res)
Bozanic, Jeffrey E., #181, Cave Instructor & Sponsor, P. O. Box 3448, Huntington Beach, CA, 92605-3448, 714-846-5220 (bus)
Brady, Kelly, #216, Cave Instructor & Sponsor, Cartography Instructor, P. O. Box 4278, Gainesville, FL, 32613, 904-372-3819 (res)
Bromenschenkel, Jay, #222, Basic Cave Instructor, P. O. Box 2445, High Springs, FL, 32643, 904-454-1639 (res)
Broome, Gene, #225, Cave Instructor & Sponsor, DPV Pilot & Stage Diving Instructor, Branford Dive Center, P. O. Box 822, Branford, FL, 32008-0822, 904-935-1141 (bus), 904-935-0146 (res)
Brown, Larry, #249, Cavern Instructor, Rt. 1, Box 17, Monroe, NC 27559, 919-542-5343 (res)
Burge, John W., #221, Cave Instructor & Sponsor, Surveyor Instructor, 11711 Chanticleer Ct., Pensacola, FL, 32507, 904-492-2232 (res)
Butler, Daniel B., #195, Cave Instructor & Sponsor, 61 Golden Shower Ln., Dededo, Guam, 96912
Butt, Peter L., #186, Cave Instructor & Sponsor, Stage Diving Instructor, P. O. Box 1057, High Springs, FL, 32643, 904-454-3556 (bus), 904-497-4823 (res)
Clemons, Robert R., #254, Cavern Instructor, P. O. Box 475715, Garland, TX 75047, 214-205-7344 (res)
Clesi, Dustin M., #199, Cave Instructor, DPV Pilot & Stage Diving Instructor, P. O. Box 385, Branford, FL, 32208-0385, 904-935-2283 (bus)
Coke, James G., #193, Cave Instr. & Spon., Recovery, Surveyor, & DPV Pilot Instr., Akumal Dive Shop, Postal 1, Playa Del Carmen, Q. Roo, Mexico, 77710
Conlin, Lorie Beth, #246, Cavern Instructor, Postal 1, Playa Del Carmen, Q. Roo, Mexico, 77710
Dabbs, Joseph R., #145, Cave Instructor, 1815 Inspiration Ln., Huntsville, AL, 35801, 205-534-8668 (res)
Dadestan, Kamran, #250, Cavern Instructor, 189 Shoaf St., Tarentum, PA, 15084, 412-265-4187 (res)
DeRouin, Terry, #238, Cave Instructor, Stage Diving Instructor, 1196 Will Scarlet Dr., Macon, GA, 31210, 912-474-6790 (bus), 912-471-9730 (res)
Doviat, Stush, #211, Cavern Instructor, Scuba South, 2727 Banksville Rd., Pittsburgh, PA, 15216, 412-531-5577 (bus)
Exley, Sheck, #101, Cave Instructor, Recovery & DPV Pilot Instructor, Cathedral Canyon, Rt. 8, Box 374, Live Oak, FL, 32060, 904-362-7589 (res)
Eyring, Marc W., #228, Cave Instructor & Sponsor, 8268 Burgos Ct., Orlando, FL, 32819, 407-352-5649 (bus & res)
Forman, Steve, #106, Cave Instructor & Sponsor, 5400 Struthers Rd., Winter Haven, FL, 33884, 813-657-2822 (bus), 813-324-6052 (res)
Fox, A. Dale, #163, Cave Instructor, 10700 Marlborough Rd., Fairfax, VA, 22116, 703-591-8053 (res)
Gabriel, Jim, #244, Cavern Instructor, P. O. Box 2257, High Springs, FL, 32643, 904-454-3556 (bus), 904-454-8571 (res)
Gerrard, Steve, #192, Cave Instructor, P. O. Box 20006, Tallahassee, FL, 32316-0006
Gonzalez, Kevin, #220, Cave Instructor, 1667 S. Hwy 17-92, Longwood, FL, 32750, 407-695-0991 (bus)
Gum, Darel, #251, Cavern Instructor, P. O. Box 3044, Merrifield, VA, 22116, 703-255-2984 (res)
Harmon, Chip, #236, Cave Instructor, 6401 N.W. 54th Way, Gainesville, FL, 32606, 904-378-1253 (res)
Heinrich, Paul, #165, Cave Instructor, Scuba West, 8109 New York Ave., Hudson, FL, 34667, 813-863-6911 (bus)
Hempstead, Jamie, #194, Cave Instructor & Sponsor, P. O. Box 6774, Columbus, GA, 31907, 404-323-9363 (res)
Howard, Frank, #234, Surveyor Instructor, 334 Portico Ct., Chesterfield, MO, 63017, 314-469-6133 (res)
Iliffe, Dr. Thomas, #156, Cave Instr., Dept. of Marine Biology, Texas A & M University, Galveston, TX, 77553-1675, 409-740-4540 (bus), 763-8707 (res)
Jay, John D., #247, Cavern Instructor, Ginnie Springs Resort, 7300 N.E. Ginnie Springs Rd., High Springs, FL, 32643, 904-454-2202 (bus), 904-454-7604 (res)
Jubb, Peter S., #158, Cave Instructor, 1901 W. Bay Dr., Largo, FL, 34640, 813-585-0938 (bus)
Kolczynski, L. J., #223, Cavern Instructor, 17 Sea Bass Ln., Ponte Vedra Beach, FL, 32082, 904-285-4022 (res)
Kristovich, Ann, #239, Cavern Instructor, P. O. Box 49163, Austin, TX, 78765, 512-480-8840 (res)
Leonard, Mark D., #169, Cave Instructor & Sponsor, Recovery & DPV Pilot Instructor, Rt. 14, Box 136, Lake City, FL, 32055, 904-752-1087 (bus)
Lins, Daniel F., #262, Cavern Instructor, P. O. Box 221, Ocala, FL, 32678-0221, 904-629-9749 (res)
Maufroy, Robert, #152, Cave Instructor, 11225 S.W. St., Miami, FL, 33176, 305-253-9065 (res)
Menke, Ronald, #209, Cave Instr. & Spons., Kissimmee Pro Dive Center, 406 E. Vine St., Kissimmee, FL, 34744, 407-933-5090 (bus)
Milhollin, Robert David, #258, Cavern Instructor, P. O. Box 595004, Miami, FL 33159-5004, (305) 652-6338 (res)
Miller, Marianne, #252, Cavern Instructor, 15204 Omaha St., Hudson, FL, 34667, 813-869-2939 (res),
Mims, R. Lynn, #237, Cave Instructor, The Dive Buddy, 334 Hoover Cir., Toney, AL, 35773, 205-852-6467 (bus)
Murphey, Milledge, #190, Cave Instructor, 1815 N.W. 7th Pl., Gainesville, FL, 32603, 904-392-0584 (bus), 904-373-9234 (res)
Nicholson, Henry, #148, Cave Instructor & Sponsor, Recovery Instructor, 5927 Hyde Park Cir., Jacksonville, FL, 32210, 904-786-6363 (res)
Odom, Jr., Joseph L., #261, Cave Instructor, 13002 Coy's Dr. S.E., Huntsville, AL, 35803, 205-882-0955 (res)
Oestreich, Bill, #253, Cave Instructor, 8585 N. Pineneedle Tr., Crystal River, FL, 32629, 904-563-2763 (res)
Page, E. Eugene, #245, Cavern Instructor, 205 S.E. 16th Ave. #2-C, Gainesville, FL, 32601, 904-371-3990 (res)
Pittman, Steve, #263, Cavern Instructor, 2607 S. Memorial Dr., Tulsa, OK 74129, 918-627-3607 (bus)
Power, Robert A., #166, Cave Instructor, P. O. Box HM 1643, Hamilton HMZ, Bermuda
Purchase, Dale J., #140, Cave Instructor, 4181 S. Wayside, Saginaw, MI, 48603, 517-791-1707 (res)
Questel, Kelvin, #235, Cavern Instructor, 938 Madison Ave., Wooster, OH, 44691, 216-262-3483 (res)
Rhea, David W., #233, Cave Instructor, Rhea's Diving Services, 313 Whitecrest Dr., Marysville, TN, 37801, 615-977-0360 (bus)
Sirota, Phillip, #182, Cave Instructor, Rt. 2, Box 211-U, Wellborn, FL, 32094, 904-963-2904 (res)
Sugden, Jr., Herbert John, #256, Cavern Instructor, 2150 Kurt Ct., Apopka, FL, 32703, 407-880-2584 (res)
Sutton, Carl, #243, Cave Instructor, P. O. Box 247, 55 S. Main St., Alachua, FL 32605, 904-462-1881 (bus), 904-373-0215 (res)
Tasso, Eric P., #255, Cave Instructor, DPV Pilot & Stage Diving Instructor, 3535 N.W. 54th Ln., Gainesville, FL, 32605-0808, 904-378-5207 (res)
Teixeira, Mark W., #260, Cavern Instructor, 3501 S.W. 24th Ave. #65, Gainesville, FL, 32607, 904-377-2822 (bus), 904-378-6615 (res)
Tysall, Terrence, #264, Cavern Instructor, 2219 E. Colonial Dr., Orlando, FL 32803, 407-896-4541 (bus)
Walton, Gary, #240, Cavern Instructor, 4119 Roland Ave., Baltimore, MD 21211, 301-467-3503 (res)
Watson, Patton E., #227, Cave Instructor, P. O. Box 250174, Montgomery, AL, 36125, 205-265-2335 (bus), 205-264-3313 (res)
Williams, Dennis, #118, Cave Instructor, 5385 Sand Lake Dr., Melbourne, FL, 32934, 407-724-4922 (bus)
Young, Tom, #215, Cave Instr. & Spons., 26555 Westwood Dr., Spring, TX 77386, 713-367-3999 (bus)

CDS DUES ARE RAISED

On Aug. 22, in what was practically an historic Board Meeting, the CDS Board of Directors voted to raise dues and subscription rates for the first time in more than ten years.

Regular Membership has been raised from \$5 to \$10. **Family Membership** remains constant at \$1. **Subscriptions** have been raised from \$15 to \$20. And for the first time, a new category has been devised for **Instructors**, with Section dues of \$25.

It was argued at the meeting that the Cave Diving Section was the only scuba-certification agency in the entire world with such ridiculously low instructor membership fees—considering the extra benefits instructors receive and the financial burden this imposes on the Section.

Dues figures for the regular categories of membership and subscription were also proposed (by the nasty old Editor) for as high as \$20 and \$25, respectively. But the majority of Directors thought that, in spite of the fact that \$10 still does not entirely cover the cost of producing and mailing the newsletter, the present increase was sufficient. With our proposed institution of a paid part-time business manager, we will need these revenues desperately.

For those of you who are concerned to save money and who do not really have an interest in dry caves, please note that subscription at \$20 does still provide a significant savings over the combined total of \$35 for CDS' and corequisite NSS memberships. ■

RESCUE IN TENNESSEE

[From an AP article, "No Air, No Fish, But lots of Luck," Aug. 18, 1992, *Miami Herald*.]

Chattanooga, TN. The Tennessee Valley Authority partially drained a lake to rescue a diver whose scuba tanks ran out as he hunted catfish in an underwater cave.

David Gant, a logger from Bryant, AL, was trapped in an air pocket in the cave in Nickajack Lake for about 16 hours after he and a friend entered Saturday night and got sepa-

rated. The friend got out and called for help.

The TVA drained the lake 2-3' on Sunday, drawing fresh air deep into the cave where Gant was treading water. "He emerged 6½ hours later, weak and nauseated," said Rescue Chief Jim Poplin. "But he was back at work Monday."

"Gant risked a trespassing charge for entering the cave, which was closed to protect a rare bat species," TVA spokesman Gil Francis said Monday. ■

LETTER TO THE EDITOR

August 6, 1992

To all Cave Divers,

I just received my May/June issue of *Underwater Speleology*. Inside I noticed a warning about "Guard Yourself Against Underwater Theft!" I find this type of action by fellow divers to be totally irresponsible. As noted that no one "abandons" expensive equipment. Living in Tennessee, I don't have the opportunity to go cave diving as much as I would like. But I still practice techniques in the open water.

I dive not only for fun and enjoyment, but to relieve stress. As a police officer, I sometimes encounter some stressful situations. Now, I'll have stress on the streets at work, and when I go diving. I hope not. Let's take care of each other as police officers do. Don't take my equipment and I won't shoot you for speeding.

Thanks,

Ken Moore (NSS #28018)
Clarksville, Tennessee ■

In a brief interview, the retiring editor was asked a few questions and answered with as many bad movie quotes as possible:

UWS: Are you glad this is your last issue?

GREY: Is the atomic weight of cobalt 58.9?

UWS: Do you think you'll miss editing *Underwater Spe-*

GREY: NOT!!

UWS: Do you have anything derogatory to say about your successor?

GREY: Derogatory? Yeah, he's great. (Yo, Adrian!)

UWS: Do you have any parting words? Maybe something tackily Arnold Schwarzeneggerish like "I'll be back"?

GREY: You want Schwarzenegger? I'll give you Schwarzenegger: "Hasta la vista, Babeeeee!"

No, seriously. It's been a lot of fun. Many thanks to all of you who have supported UWS all these years. Please give Carl all your support and encouragement.

Safe caving and diving! — H.V. Grey ■

MURDER ON A CAVE DIVE

a short story by Frank R. Lavalley (NSS #27829)

"Joe," "Mike," and "Sam" prepare to make a long penetration cave dive. Each of them is carrying a stage bottle and multiple reels. They plan to breathe from their stage bottles until the first diver reaches 2/3's, then drop the stage bottles and continue on into the system until the first diver reaches 2/3's on his doubles.

Joe is designated the team leader and takes the lead, securing the primary reel in open water, then heads into the cave. The main permanent line is located about 200' in. After Joe secures the primary reel to the line and everyone indicates all okay, they start their journey.

About 800' down the permanent line, they reach their first jump. Joe has reached 2/3's on his stage bottle at this point also, so they all drop their stage bottles and secure them to the permanent line. Joe places another clip on the line, then closes the second jump with another gap reel. They continue on for about another 1000', at which time Joe reaches his 2/3's turnaround on his doubles.

They reverse their positions and Sam takes the lead, with Joe bringing up the rear to collect all the gap reels and line clips on the way out that he has installed. They start their journey back to the cave entrance, about 3000' away. It has been an enjoyable dive—so far.

After swimming the first 1000' back, they are surprised to see an abrupt end to the line. "Wait a minute. Something isn't right. We know the jump was gapped. We know we're on the right line. So where's the gap reel?"

Sam secures a gap reel, while Mike and Joe hold their position, and begins to make a sweeping search of the line. A couple of minutes later, Sam locates the line and secures the gap reel. The line clip is still there, so he knows they are definitely on the right line.

He signals Mike and Joe to swim over, then shows them the line marker. They continue on with some concern. Their air supplies are dropping, due to the time delay in relocating the line. They know their stage bottles are waiting for them beyond the next jump though. They'll all feel better when they get there!

After swimming the second 1000', they are shocked to find another abrupt end to the line. "God, no! Not again!

What the hell is going on?"

"Okay, we're all experienced cave divers. We know we're down to a few hundred pounds in our tanks, so let's keep our cool and keep our breathing rates down. This is not the first time we've had problems."

Sam secures another gap reel and begins another sweeping line search. "Please let me find the line in a hurry. We've got to get to those stage bottles!" It doesn't take but a moment. "There's our line marker, thank God!" He signals Mike and Joe, who swim over without hesitation.

Relief almost immediately turns to fear, as they reach for their stage bottles. "Oh, my God! The stage bottles! They're gone!" Fear now escalates to near-panic. All of them are now critically low on air, with 1000' to go. The "fight or flight" syndrome takes over and they begin a mad-dash swim towards the entrance. "The hell with technique! We've got to get out of here!"

With about 500' to go, Joe starts breathing hard on his regulator. He knows he only has a few breaths left. He tries to signal Sam and Mike ahead of him, but it's useless.

"I don't want to DIE!" he screams silently. Unable to hold his breath any longer, he spits out his regulator and inhales water into his lungs. For several seconds, he thrashes around on the cave floor, stirring up huge clouds of silt. Then he is still. Sam and Mike make it to the start of the permanent line where the primary reel should be. "Oh, God! It's gone, too! Which way is the entrance?"

It starts getting hard to breathe for both of them. They know they are about out of air. They turn to each other for help, but there is none. They make a desperate swim towards the direction of the entrance.

"Chuck," "Butch," and "Adam" are sitting on the bank of the cave basin with their wetsuits still on, their hair still dripping wet, and smiles on their faces. They are celebrating their new-found fortune from their recent cave dive—three stage bottles, two gap reels, and a primary reel, which some cave divers "abandoned."

Sam and Mike are lying dead on the cave floor—100' from the cave entrance. ■

Cave Diving Section of the
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