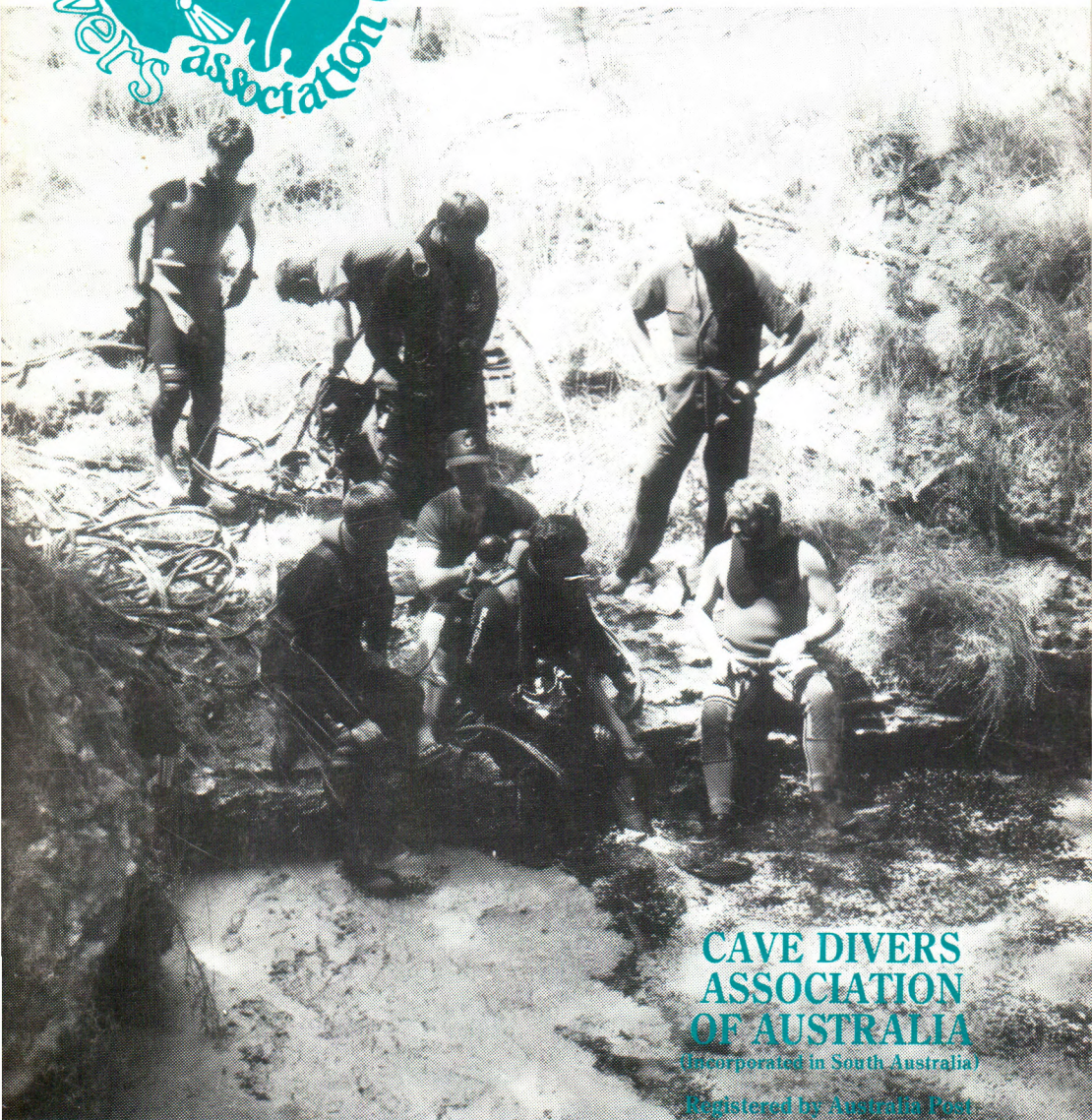




C.D.A.A. Newsletter

GUIDELINES

No: 45 - OCTOBER 1992



**CAVE DIVERS
ASSOCIATION
OF AUSTRALIA**

(Incorporated in South Australia)

Registered by Australia Post
Publication No. VBH 5938



Cave Divers Association of Australia
P.O. Box 290, North Adelaide, 5006

Front Cover: Chris Brown conversing with the S.A. Police Underwater Recovery Squad during an exercise at Pines.

GUIDELINES is the newsletter of the Cave Divers Association of Australia, published four times a year - January, April, July and October. All articles for the following issue are to be sent to the Editor, Peter Girdler, P.O. Box 290, Golden Grove, SA 5125, prior to **10th December, 1992**. Articles and information may be reproduced without prior permission provided reprints are credited to the authors and GUIDELINES. Private ads for caving and diving equipment may be advertised free. Opinions expressed in GUIDELINES are those of the individual authors and are not necessarily those of the C.D.A.A.

DIRECTORY

The following is a list of people that can be contacted for C.D.A.A. matters. Please contact the most relevant person or, if unsure, write to P.O. Box 290, North Adelaide, 5006, and your enquiry will be passed on.

National Director (temporary)	Representatives:
Lance Mitchell (03) 720 1205 (h)	S.E. - Phil Argy (087) 23 0879 (h)
National Standards Director	WA - Andrew Poole (09) 249 4048
Chris Brown (08) 269 5793 (w&h)	NSW - Neil Vincent (043) 97 1798 (h)
Business Director	Regional Training Co-ordinators:
Lisa Bernasconi (03) 370 1093 (w&h)	Victoria - Phil Mann (03) 483 0315 (w&h)
Treasurer	WA - Hugh Morrison (09) 344 1562 (w)
Phillip Mann (03) 483 0315 (w&h)	NSW - Terry Cummins (02) 888 5899 (w)
Training Manager	C.D.A.A. Publications
Greg Bulling (08) 265 4978 (h)	Noel Dillon (03) 363 6745 (h)
Instructor Training Manager	Records Officer
Tony Richardson (03) 754 6163 (h)	Sue Riddle (03) 762 3471 (h)
Site Access & Mapping & Research Manager	Guidelines Editor
Peter Horne (08) 295 6031 (w&h)	Peter Girdler (08) 259 5497 (w)
	Peter Girdler (08) 380 5205 (h)

CONTENTS

Editorial <i>Peter Girdler</i>	1
Note from National Director <i>Ian Lewis</i>	1
South East Rep. Report <i>Phil Argy</i>	2
CDAA News	2
Business Director's Report <i>Tony Davis</i>	3
A Note from Records Officer <i>Sue Riddle</i>	4
McKays Shaft - A Dry Caver's Dive! <i>Mark Thiselton</i>	6-7
Stress Management and Cave Diving <i>John Dalla-Zuanna</i>	8-9
1992 Annual General Meeting <i>Peter Horne</i>	10-11
Financial Statements	11
Access Letter	12-13
CDAA Members Manual Order Form	17
It's a Record <i>Mark Halliday</i>	18
Trading Post	18
Site Access and Research Report 1992 Part 1 <i>Peter Horne</i>	19-20
CDAA Instructor Training Program	20
CDAA Instructors	21
CDAA Site Access	22-23
CDAA Products	24

EDITORIAL

"I complained when I had no shoes, until I met a man who had no feet!"

Most of you would have heard this statement before and I can understand you asking what has this to do with cave diving.

Well, during the school holidays at Mount Gambier July 1992, I dived with a man who had no use of his legs and the above statement now has a personal meaning. Neil, CDAA No. 2021, started diving open water during 1985 and obtained Category 2 during January 1987, then crossed over to Sinkhole December 1991. Andy Wight was his instructor. Apart from the dive, the most memorable sight was watching, with dismay, his diving gear being transported across the paddock to the Shaft in his wheelchair, while we struggled with ours on foot. No vehicle access that day.

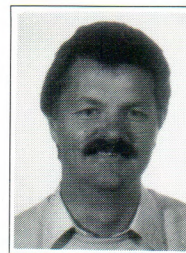
I would like to take this opportunity to thank Tony Davis for his kind words and also for his contribution to this "new look magazine". Without his untiring effort and motivation, Guidelines would not be what it is today. Thank you Tony, you are going to be a hard act to follow.

The AGM was held in September and a few notable changes have been made. The National Director resigned and two new Directors were elected by the members. Congratulations to the new Directors. The members will now be required to elect a new National Director. I understand that Lance Mitchell has been appointed as caretaker until a new Director is elected. Welcome back Lance. A summary of the meeting is contained in this issue, thank you Peter Horne.

I would like to congratulate Ian Lewis on his Life Membership, a reward for his contribution to the CDAA over many years. Well done Lewy, you have earned your retirement, enjoy!

Well folks, I will say not more at this time. Enjoy reading this issue.

Pete Girdler



NATIONAL DIRECTOR'S REPORT

G'day all cave divers! This is my final report for you and the new Directorate to consider. The year's primary triumph was Shek Exley's visit, referred to in Tony Davis' report. I felt it provided a strong linking

bond amongst cave divers across the country, and the CDAA owes a debt of gratitude to Tony for setting such a high standard. Of a lower profile, but equally important impact, has been Peter Horne's untiring and outstanding work in issues of Dive Site Access and general communications in the CDAA, as well as his confidential advice and guidance to me. Peter has contributed much more to the CDAA's advancement than most of us realise.

Unfortunately, the same cannot be said of the performance of the Standards Divisions management. It is no secret that relations between Glen and myself broke down almost completely, with Tony Davis left to fill the gap in

communication. Such problems starkly reveal the limitations of a three-person Directorate, and it may be that the responsibilities are now so many and varied that we could consider expanding the Directorate to five, as was suggested by a number of members during the Re-structure phase. Even more distressing was the opinion of Glen and others that Standards are *separate and removed* from management issues - particularly as applied to a National Association and that meetings were considered unnecessary. Throughout the year, not one single Instructor's meeting was held where issues could be debated openly! I know there are two or three senior instructors who now believe we should revert to a Mount Gambier-style base with controls in Adelaide, but this denies more than 75% of our membership from full and equal participation in our Association!

I hope Chris Brown is prepared to face these responsibilities constructively in his new job - he will get much support where the previous

Continued overleaf

Director did not. We cannot turn the clock back, guys. We are in the field of National Recreation. Standards belongs with the other Directors and, ultimately, the members, not in backroom isolation.

All the best to everybody for 1993.

Cheers! Lewy

SOUTH EAST REP. REPORT

Phil Argy

Due to the stacked agenda for the 1992 AGM, I decided to hold off on any news I had for a report in Guidelines and this is it!

Over the past weeks I have met with Tim Collins, National Parks, and had discussions over some interesting proposals for Piccaninnie Ponds. These include a shelter shed for divers, funded mostly by National Parks! I expect a little help will be required in designing the structure and building it to our specifications (a shelf about hip height would be of benefit to diver's back muscles). Tim sees this in the short term with long term upgrades such as toilets and upgraded facilities in the camping area of the park. Any suggestions within this scope can be directed to me at Mt. Gambier. Tim Collins has further requested the assistance of divers to photograph portions of the Ponds in an effort to monitor the plant growth. This enquiry should be directed to Tim or myself and will be organised under the guidance of National Parks.

Regarding McKays Shaft, I have co-ordinated the last dive of the year (at the landowner's request). I am informed that further dives can be co-ordinated after Christmas. Any intending McKays' divers could contact me around Christmas to schedule further dives.

CDAА NEWS

NEW CDAА TREASURER

Phillip Mann has been appointed Treasurer for the coming year. He can be contacted on (03) 483 0315 (all hours).

RECORDS OFFICER

- NEW TELEPHONE NUMBER

Please note, the new telephone number for the Records Officer, Sue Riddle, is (03) 762 3471. You can ring during the day and leave a message on the answering machine.

NEW BUSINESS DIRECTOR

Lisa Bernasconi was appointed Business Director at the 1992 Annual General Meeting. Lisa's phone no: (03) 370 1093, before 9.30pm.

BARNOOLUT CLOSURE

Due to the shearing season, Barnoolut Estate will be closed to divers for the months of October and November each year. Please do not request permission to dive during these months, as you will be refused.

BARNOOLUT ACCESS

The Manager from Barnoolut Estate, Colin Traeger, has requested that divers applying for access to dive on Barnoolut, send their Booking Form between TWO and SIX WEEKS prior to the date planned to dive. Any earlier or later, and your Booking Form will be returned, without permission being granted.

On pages 12 and 13 in this issue of Guidelines is the Booking Form which you should copy and complete for access to Barnoolut (and other Mount Gambier sites), and don't forget to include a stamped, self-addressed envelope for the reply.

BUSINESS DIRECTOR'S REPORT

by Tony Davis

Well, folks, it's certainly been a very busy year for the Business Directorate, and I feel one of the most important in our history.

I would like to start by thanking all those who supported me during the last 12 months - Ruth Mann, our Guidelines publisher; Lisa Dalla-Zuanna, our Treasurer (and new Business Director); Sue Riddle, our Records Officer; Noel Dillon, our Publications Officer; and last but not least, Peter Girdler, who started as Records Officer, and is now Guidelines Editor.

During the year I was able to organise a number of new publications, including the 2nd edition of the classic "The Darkness Beckons". We were offered the book pre-publish date, and at a greatly reduced price, and recently I was sent the new 1992 edition of the NSS Cave Diving Manual, which will be available in approx. 8 weeks.

The new Members Manual has sold very well, and has filled a gap as a complete training manual. Thanks to all those who advertised, as without the support, it wouldn't have happened.

As an Association we are making more contacts all over the world, and the people who will benefit are you - the members. With greater contact worldwide, more regions are open to us, and more information is available for all to use. We are also getting more interest in our own country from various places, proving our profile as a professional Association is getting better and better.

A new computer system was purchased, along with software packages, allowing a far more efficient data base and quicker service to all members. This was only possible through publication sales, so keep it up gang!

By far the biggest event this year, and in fact in the history of the CDAА, was the Sheck Exley tour. I first contacted Sheck in February, starting arrangements for the July tour, and after 4 shows all over the country, it was obvious the event was a huge success. Over 800 people saw the show, and it was said by members and non-members alike, that it was the best thing to happen to cave diving and diving in general in years.

It was a dream come true for Sheck, who also sampled our diving whilst here, and an event that will long be remembered for those who attended. My sincere thanks to all who helped organise the tour, and a special thank-you to Andrew & Liz Wight, who also presented their new film, and ferried Sheck all over the country.

As a huge added bonus, a prime segment on Channel 9's "Wide World of Sports" was organised by Andrew Wight, not by DITA as was wrongly stated at this year's AGM. Without Andrew's contacts, our Association and our sport would not have been given the huge exposure associated with a television story, and I get very tired of the so-called business people in diving trying to take credit for something they had absolutely nothing to do with.

The benefit to our sport gained through the tour is immeasurable, and we proved that, as an Association, we can organise such an event successfully, not having to rely on help from other organisations, as was again wrongly said at this year's AGM.

I feel it's time that the running of the CDAА was left to those who are committed to the Association, not to those who are committed to enhancing their own profile at the expense of our sport.

Finally, thank-you again to all those who helped make this a year to remember, and I can now dust off the gear and start cave diving again. I hope I remember how ...

G

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A NOTE FROM RECORDS OFFICER

I just thought I would share a couple of points with you which will make my position as Records Officer much easier.

- My new phone number is (03) 762 3471. Not after 9.30 p.m. if possible.
- All photos sent in should have name and membership number on the back of them.
- Please use one Renewal Form per person.
- Membership Fees are due 1st July each year. Have you paid yours?
- Any Membership Fees paid between 1st May and 1st July shall be transferred to the next Financial Year – this includes new members.
- Any members whose Membership Fees are unpaid by 1st August shall, at the

discretion of the Directorate, pay a Late Fee. This Fee of \$20 will be charged on all Renewals received after this issue of Guidelines. Please include it in your payment.

NOTE TO INSTRUCTORS:-

Melbourne address for sending Application Forms is:

CDAA, P.O. Box 900, Bayswater 3153

- Please ensure that all Cavern Applications include the following:
 - two (2) photos
 - White Membership Application Form (from Members Manual)
 - yellow Cavern Diver Application Form.

by Sue Riddle

ATTENTION ALL MEMBERS

Due to many members' details changing, with regards to home and business hours' phone numbers especially, it is difficult to keep those published in Guidelines accurate. Should you discover any discrepancies, please contact the Editor, Peter Girdler, to amend these for the following issue.

MEMBERS MANUAL:

All orders for the CDAA Members Manual are now \$20, due to severe postage increases.

To secure your copy of the Members Manual, complete the order form on page 17 in this issue of Guidelines, and send, with cheque for \$20, to

CDAA Members Manual
P.O. Box 290,
North Adelaide, 5006



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McKAYS SHAFT – A DRY CAVER'S DIVE!

by Mark Thiselton

In the recent CDAA newsletter "Guidelines", No. 44, July 1992, McKays Shaft was reopened as a Sinkhole for diving. Being involved in a small group of keen cave divers, namely Peter Kraehenbuehl, Ian Williams, John Gleeson, Janine Tamblyn, Michael Sard and myself, we naturally approached Ian Lewis for access to McKays Shaft.

We negotiated with Ian to dive on the morning of Saturday, 28th August 1992, but after some last minute confusion we found ourselves high and dry. Ian then spent considerable time and effort with the land owner to rearrange our dive for the morning of Sunday, 29th August 1992. This turned out to be in our favour as the weather was less than ideal on the Saturday and considering the amount of time required to set up the entrance to safely enter and exit the cave along with lowering and raising the dive gear.

We met the land owner at the pre-arranged time of 9 a.m. sharp on the Sunday morning, where we signed the usual access deeds, looked at his photograph collection and discussed the actual event that we were about to participate. The land owner joined us at the cave entrance initially as we set up and discussed many issues with us. He was so interested in our progress, that he called by at various times throughout the day to check how things were going.

Before we entered the cave we decided to remove a rather large pine tree branch which had fallen into and partly blocked the entrance solution tube. This slowed our progress slightly but made access easier later.

The entrance to McKays Shaft is a 25 metre deep, 2 x 3 metre diameter solution tube, which leads to a large single chamber whose size is some 25 x 21 metres. This chamber is water filled having a central rock pile/mud cone from which the dive was staged. This mud cone being only some 1-2 metres in diameter does not provide copious amount of space to get kitted up. We overcame this problem by gearing up in the water. The lake itself provided us with our objective – a dive site.

McKays Shaft is a very unique Sinkhole as

it contains underwater decoration. Yes, Stalactites and Shawls and Bacon Rashers. This entrance chamber must have been dry at some stage to allow the formation of this decoration, after which the water table has risen.

As the recent copy of Guidelines suggests, McKays Shaft requires one member of the group to have considerable laddering and rope skills to provide access to the dive site from the surface. Our group was lucky to have 2 experienced dry cavers amongst them and it still was quite an effort. I also believe that considerable dry caving experience is also desirable with regard to the caves speleothems and their conservation for future.

The lake is riddled with a fair amount of rubbish in the form of bottles, wood and the skeletons of a few animals such as cows and birds.

The lake also has a large amount of Calcium Flakes floating over its surface, which when disturbed by our expired air bubbles sink to the dark silt covered rock floor.

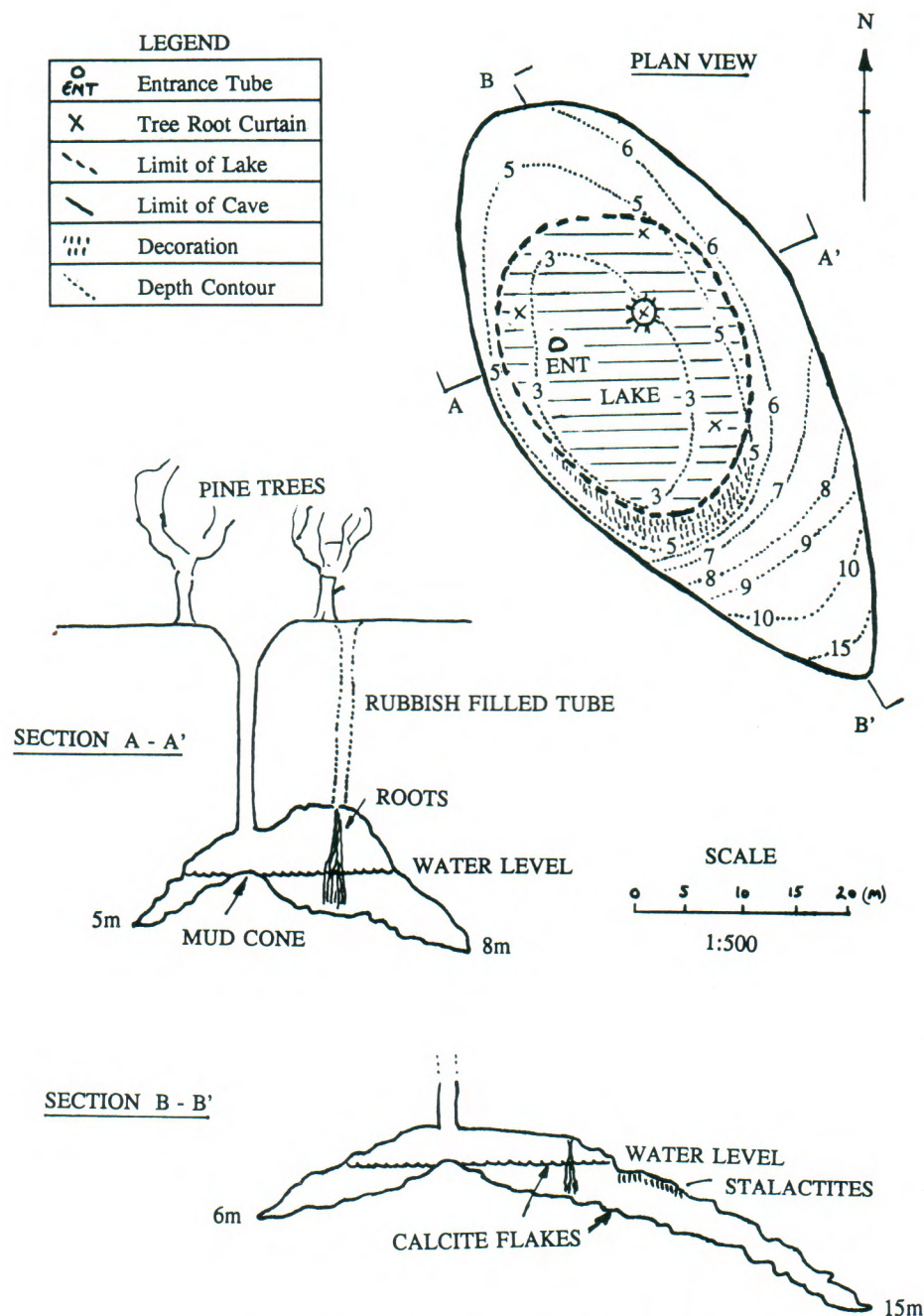
The entrance chamber is also home to a couple of Pine tree roots, which conveniently reach down to the water level.

We decided to dive in two groups of three divers in order to reduce the amount of dive gear to be lowered into the cave. Our dives were restricted to around 15-20 minutes each to reduce any silting problems and to maximise air supplies for the second group.

To reduce the possibility of silting out and reducing the visibility within the lake, we entered the water away from where the decoration is located and swam clockwise around the rock pile to observe the beauty of this underwater treasure. The decoration itself lies in about 3-5 metres of water, with the deepest part of the lake reaching some 15 metres, but in doing so becomes very low and silty.

Thanks to the efforts of our first group of divers, the second group found the water visibility to be excellent, allowing us to navigate our way around the rock pile.

Continued on Page 14



Sketch based on 1982 survey work of Peter Horne.

STRESS MANAGEMENT AND CAVE DIVING

by John Dalla-Zuanna, CDAA 236

(acknowledgement: L.H. King for some information contained within)

When you are at the furthest point in a cave what goes through your mind?

You probably ran out of line, reached your air/time limit, followed your buddy there or maybe just reached the back of the cave, regardless of the reason you got there, What goes through your mind?

Are you satisfied at this point, or are you still thinking of getting back or are looking at all the different gauges and computers and calculating your present status?

Regardless of what you are thinking or doing at this point of time, **YOU ARE UNDER STRESS!**

Let us then explore STRESS and deal with the causes, effects and the steps for you to control stress in cave diving. By understanding the nature of stress and its source, you will be able to familiarize yourself and feel comfortable with its management.

THE SOURCE OR CAUSES OF STRESS

Time. During any dive, time is the foremost important factor and the length of time spent underwater determines the profile of the dive. Within this constraint a cave-diver needs to perform various tasks, many of which requires a high degree of skill. When a time-pressure is applied to performing these tasks/skills there exists a probability of error. Notwithstanding this, a stress is applied to the diver. Contrast this with a diver so pre-occupied with time that they suddenly become "clock-watchers", a characteristic commonly encountered in novice cave or sinkhole divers diving in deep water.

Task Loading. Unlike any other form of diving, cave divers learn a new word - task loading. A cave diver is given a large number of tasks to perform - these include maintaining buoyancy, monitoring air-supply, time, depths, maintaining line/buddy contact or reel handling, directing light/s, avoiding silting, referencing and possibly even taking photos - all tasks requiring skill and all tasks necessary to participate in a cave-dive. The diver must be able to do all these tasks efficiently within

the allocated time. Under emergency or a sudden change of conditions, other tasks are added and these must be handled under a greater level of stress.

Exertion. Getting to the dive site usually is the first level of stress encountered. From the road, plane, bus etc. trip to the site, a diver must battle fatigue, frustration, deadlines and equipment preparation and handling. From here a diver is required to either walk or crawl some distance, even kilometres, to their dive site, and/or use complex climbing and descending techniques to get to the water - exertion leads to stress, physical stress.

Cold. In the water itself, after a period of time - cold becomes the cave diver's enemy. In many of the underwater caves in Australia the cold water causes a degree of physical stress. The diver combats this cold by increasing their respiration, striving to keep warm - subsequently exerting themselves adding to their stress.

Lack of or poor visibility. Although the prepared cave diver adequately equips themselves with torches, the lack of visibility by either light failure, or the reverse, bright lights accidentally shined in one's eyes, causes most divers to start stress management. Most of the divers input is through the eyes - and when this input is not forthcoming an anxiety comes about. Even if the light source becomes weak, some objects or sources of references become distorted or totally unfamiliar. The most stressful situation the cave diver can encounter is a silt out, where even torches become useless and virtually all frames of references are lost.

Confinement. When a cave diver encounters a constriction or a confined area where movement is limited, anxiety increases. Couple this with long distances travelled underwater and the diver is quickly placed under stress. Knowing that the only exit is so far away or after negotiating a very tight constriction and having to turn around and go back always makes a diver more anxious. Even when a loss of body control like when a

Continued next page

STRESS MANAGEMENT & CAVE DIVING

Continued from previous page

diver is in a constriction or if the diver becomes tangled, is a stress factor. Invariably this also occurs with loss of buoyancy, silt-outs, equipment banging on walls and a host of other situations.

Physical Threat. When a diver enters the water in a cave dive, the mere fact that they have physical barriers such as walls, and constrictions to contend with, creates a stress caused by the physical threat of the sport of cave diving - errors in judgement can endanger the diver's life.

Ego Threat. The cave diver can see this sport as the ultimate. The ego threat places demands on both the diver and the others diving with them. There is no room for this type of stress in cave diving - a good diver does not have to prove anything to anyone.

SO WHAT EFFECT DO THESE STRESSES HAVE ON CAVE DIVERS?

When stress affects the diver, a number of behavioural mechanisms set into motion.

A mental narrowing begins, reducing a diver's awareness of the environment and thus the ability to analyse a situation. Should an incident occur, the pool of experience and knowledge from which the diver draws on suddenly reduces, the options seem to lessen. This mental narrowing prevents the diver from detecting the cause of the problem. For example, the diver may only notice that they cannot move rather than the fact that their guideline is snagged on their gear so they kick harder to push through.

At this point the diver's response becomes narrow. Well-learned behaviours override rationality. When a diver runs out of air, the buddy pair begins to automatically buddy breathe instead of using the octopus rig.

The ultimate response narrowing is panic. Panic decreases the diver's ability to analyse a situation.

Panic decreases the diver's ability to respond to a situation.

Panic increases stress.

When stress increases, it creates the physiological effect of increasing your respiration - your heart rate - and your air

consumption - more time pressure. A cycle begins ...

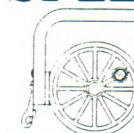
DEALING WITH STRESS

To overcome the effects of stress in cave diving one should adopt the following procedures.

- Anticipate Problems.** The preceding discussion would have exposed you, the diver, to a wide range of situations and thoughts in the hope of stimulating your understanding of the kinds and types of problems that arise for consideration.
- Repetition of Skills.** The basic skills of diving such as buoyancy control, alternate air source use, hand/light signals, and body positioning are only some! How many times have you heard the statement "practise your basic skills as often as you can". The reasoning why should be clear by now.
- Equipment Familiarity.** The diver must be totally comfortable with their equipment, its placement, its availability in confined spaces, its performance and so on.

Continued on Page 14

SPELEONAUT



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1992 ANNUAL GENERAL MEETING

Peter Horne

Summary of business discussed at the Annual General Meeting held at the Red Carpet Inn, Jubilee Highway East, Mount Gambier on Saturday 26th September, 1992.

The Annual General Meeting was far from totally boring this year (as far as meetings go, that is) ... what with people interjecting regularly and occasionally getting rather heated in their accusations and responses, it was almost like "the good old days" for those of us who remember the active times of the early 1980s!

The outgoing National Director, Ian Lewis, gave an interesting report about the major activities and negotiations with which the Association had been involved and he expressed his concerns about the Association's need to be a more coherent force so that it could deal with the various issues and cave Managers in a unified manner. Ian was also happy to report the way in which friendly discussions were now occurring with representatives of the S.A. Police Department, and he appreciated the efforts of a few members who had helped him with various matters. Also, the CDAA was now talking more with the Australian Speleological Federation (particularly in South Australia) regarding a proposed CDAA/ASF agreement and caving/diving standards - hence one of the proposed alterations to the Constitution re. Affiliation Membership - but we still had a way to go with some other issues. Ian also said it had been a very tough year for him and expressed his disappointment about the lack of progress with National Parks negotiations re. Warbla Cave's closure and problems with interstate cave diving issues.

The down side of the year's work from Ian's perspective was a growing and entrenched conflict between various factions (over standards issues again) and Ian surprised everyone later in the evening by announcing that he had changed his mind and was resigning from the position of National Director! This meant that we then had no National Director, and new voting arrangements involving all financial members would need to be made shortly.

The Business Director's report was very interesting, indicating how hard Tony Davis had worked to help the Association to gain respectability and considerable financial backing. Also, as Guidelines editor, Tony thanked Ruth Mann for putting in all together in this neat format, and also thanked everyone else who helped him in various ways during the year. He was especially happy with the highly-acclaimed tour by American cave diver Sheek Exley (which was arranged almost single-handedly by Tony) and he felt that the accompanying television coverage - especially arranged by film-maker Andrew Wight on behalf of our Association - had helped the CDAA's public image immeasurably.

Glen Harrison reported that the position of Standards Director has been a tough job this year as well, with numerous new standards and ongoing discussions taking place. Glen wanted to particularly thank Chris Brown, Greg Bulling and Tony Richardson for their ongoing work and support with regards new standards and the protection of manuals and course outlines, etc., and he said that the Association should be very proud of its excellent safety record (there has only been one accident in a submerged Australian cave since 1974, and that occurred more than 8 years ago). Glen was confident that the maintenance of our high standards would ensure that we remained one of the world's best cave diving organisations.

Tony presented a summary of the Treasurer's Report, and after some discussion concerning earlier reports (or the lack of same), this was accepted.

A breakdown of the various research and Site Access Committee operations for the past year was provided by the Manager of the Mapping & Research Group, Peter Horne, and the meeting then turned to the proposed Constitutional and Regulation amendments.

Two proposed alterations to the Constitution (regarding the creation of Affiliate Members and the changing of the

Continued next page

1992 ANNUAL GENERAL MEETING

Continued from previous page

date of the A.G.M. from September to July) went through without much discussion, but the proposed amendments to the Regulations (put up by Chris Brown) were strongly debated, and none of them succeeded in getting through. During this period of an hour or so, many comments and concerns were raised between various members about such matters as instructor insurance and the perceived unwarranted increase in instructor standards and the like. One motion in particular - that cave diving instructors should all hold Penetration ratings before they are allowed to train people - narrowly failed, by some 38 votes to 31. (The precise accusations and issues dealt with and debated at the meeting may be read in the detailed Minutes which will be made available for any interested members who care to contact the Directorate with a self-addressed, stamped envelope.)

The problems of liability were discussed regarding new sites (especially Tank Cave), and Ian did his best to highlight how difficult things could get if the Association tried to purchase or lease properties ourselves. Finally, nominations were called for the Business Director's position, and only two people nominated - Lisa Bernasconi (Dalla-Zuanna) and Peter Girdler (who was nominated in his absence by Peter Horne, as Peter was overseas). Lisa gave a very good presentation about her interest in doing a good job for the Association and she was elected to the position by a large majority of voting members.

The issue of electing a replacement National Director was pursued again but Tony explained that the election had been completed; Ian was now resigning, and the new Directorate had the power to temporarily fill any vacancies until a new election was called for the position (by mail).

All in all, a good "fun" night for those who enjoy verbal jousting ... I just hope that next year someone ensures that a more ventilated venue is chosen (or that the damned inconsiderate smokers are thrown out!) so that sensitive minute-keepers won't have their next day's planned diving activities ruined by inflamed sinuses!

Financial Statements for year ending 30th June 1992

REVENUE AND EXPENDITURE FOR 12 MONTHS 1.7.91 - 30.6.92

Income	\$
1991-1992 memberships	13,890.00
1992-1993 memberships	17,895.00
Barnoolut indemnities	281.00
Members manuals	4,130.00
Student packages	14,097.65
Late and update fees	1,486.50
Clothing	1,381.00
Advertising	6,057.60
Miscellaneous ¹	22,671.40
TOTAL	\$81,890.15

¹ Miscellaneous includes Sheek Exley tour, Penetration courses and books sold

Expenditure	\$
Postage	6,081.92
Telephone	6,854.29
1991 A.G.M.	1,385.29
Site expenses	2,317.08
Course fees ²	3,050.00
Clothing and books	3,719.96
Stationery and printing ³	24,518.60
Meetings	1,788.05
Bank fees	984.23
Advertising	145.00
Miscellaneous	14,652.82
TOTAL	\$65,497.24

² Course fees include Penetration and Cross-over courses.

³ Stationery and printing includes \$7,777.40 for Guidelines

BALANCE OF ACCOUNTS YEAR ENDING 30th JUNE 1992

ANZ Cheque Account	\$20,492.44
ANZ Term Deposit	\$16,827.88
TOTAL	\$37,320.32

The completed set of figures for the financial year ending 30th June 1992 are available from the Treasurer by sending a stamp, self-addressed envelope.

G

CAVE DIVERS ASSOCIATION OF AUSTRALIA

(INCORPORATED IN SOUTH AUSTRALIA)

Landowner/Contact Name & Address

Group Contact: _____

Address: _____

Phone: (h) () _____

(w) () _____

Dear _____

I write to ask permission to enter _____ property/cave for the following persons on the date and times indicated below. Please find enclosed a stamped, self-addressed envelope for your reply.

Members of the Group:

NAME

CDAА No.

CDAА Certification
Level Held

NAME	CDAА No.	CDAА Certification Level Held
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

DATE

TIME

LOCATION (in order of preference)

DATE	TIME	LOCATION (in order of preference)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Signed: _____ Date: _____

STRESS MANAGEMENT & CAVE DIVING

Continued from Page 9

- d) Physiological Control. The diver needs to learn relaxation techniques to calm the body, continue efficient breathing, and allow the body to maintain normal functions without shaking or loss of co-ordination.
- e) Psychological Control. The diver needs to develop the ability to analyse situations, recall details, and think solutions.

Stress can bring out the best in people but only those who have LEARNT the art of stress management. The skills of comfort and familiarity are learnt. It does not matter what level you are certified to, but take the opportunity to contact your, or one of the many, CDAA Instructors and go along to any of their sessions that they are conducting. I am not suggesting that you do another course, but current instructors have courses going all the time, so by being involved and utilising the facilities that the instructor has already organised, you will be able to practise your skills. You will also see new equipment and new skills and be comfortable with being up to date. The instructor may ask for some nominal amount to assist in the costs of hiring etc, but it would be money well spent. After all, it may be less than a boat charter fee on that windy day!

G

McKAYS SHAFT - A DRY CAVER'S DIVE!

Continued from Page 6

In all, it took us some six hours to safely lower and retrieve all the dive gear along with ourselves in order to perform a 15-20 minute dive. Quite an enormous effort is required to visit McKays Shaft, so if you are thinking of diving it, just to say you have dived it, think a little more about the conservation of such a unique environment. McKays Shaft is not the place to learn how to ladder climb or abseil.

Our thanks go to Ian Lewis for arranging access to McKays Shaft, Peter Horne for providing much useful information about this unique feature and Mr. Murray McKay for allowing us access to this feature known as McKays Shaft on his property.

G

KEVIN N. BURROWES

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CLARENCE PARK, S.A.

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FAX: (08) 371 1218

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ODD SPOT

Authorities dropped the level of a Tennessee lake to rescue a scuba diver who was forced to breathe in a pocket of air 350 metres into an underwater cave because his tanks had run out of air. The lake's level was dropped by nearly a metre to rescue the diver, who was holding on to a stalactite and treading water.

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SHERWOOD	DIN VALVES	REELS
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CONTACT: GARY BUSH

436-438 HIGH STREET, EAST PRAHRAN, VICTORIA 3181

Tel: (03) 510 9081

A LETTER FROM THE NATIONAL PARKS AND WILDLIFE SERVICE

by Tim Collins, Ranger, Mount Gambier

PICS PIX

"It just isn't the same", There's not as many plant", "The viz was never this bad".

Heard these comments before - I certainly have.

Many divers who have been diving in Pics for years make these comments regularly. Well, now you have the opportunity to help prove these theories. As part of a vegetation monitoring program in Pics, I would appreciate copies of colour photos or videos of the Ponds, especially the first pond and chasm, taken pre 1985.

If you have any, and would like to be a part of this program, contact N.P.W.S. and we will arrange the cost of copying any suitable material.

TIME SLOTS

You all know how unique and special Pics is, and to enable you to dive the area and minimise the impact on the fragile

environment, the time slot system was introduced.

The time slot system is an important part of our management of Pics. It is a compromise between total protection and allowing you access to dive.

I am concerned that an increasing number of dive groups are getting into the water late in the time slot, and diving past the allocated time. This practice is unacceptable, so I urge you to pay close attention to the time "before" and "when" in the ponds.

And sorry folks, but "I had a hard night and slept in" is no excuse!

NATIONAL PARKS & WILDLIFE
SERVICE,

South East District Office

P.O. Box 1046,

Mount Gambier, S.A. 5290

Telephone: (087) 35 1177

Facsimile: (087) 35 1170

G

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I
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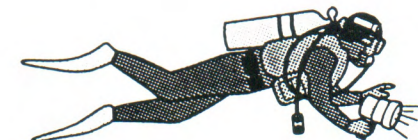
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- Individual sections for each of our four levels of certification, incorporating all the latest training materials, diagrams, notes, etc.
- Complete log book - specifically designed for Cave Diving with Site Access requirements, personal and emergency information, and more.
- Complete list and detailed maps of all currently open sites in Mt. Gambier (soon to include other regions).
- Advertisers Section: All the current information on what gear is currently available and who's got it. Where to stay in Mt. Gambier. Instructors currently teaching all levels of Cave Diving - Where and when.

All this is incorporated into a loose leaf professionally printed A5 binder that is expandable as you progress through the training levels.

To secure your copy of this exciting new publication, simply fill in the Order Form below and send with payment to:

CDA A MEMBERS MANUAL, P.O. Box 290, North Adelaide, 5006

CDA A MEMBERS MANUAL ORDER FORM

Please send me _____ copies of the CDA A Members Manual at \$20.00 each including return postage.

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Address: _____

Postcode: _____

Telephone: (home) _____

Current Level of Certification: _____

IT'S A RECORD

by Mark Halliday

A television news crew suffered severe seasickness while covering a double world record breaking dive by a Central Coast man this week.

George Szulgowski, 34, of Kincumber, completed a 51 metre dive lasting 61 minutes off Terrigal on Sunday, breathing straight from his air tank and without the use of a regulator.

The dive is believed to have earned Mr Szulgowski a place in the *Guinness Book of Records* for the deepest and longest dive of this type.

Although the Channel Seven news crew has been aboard a board to record the start of the record-breaking dive, they were driven to shore by seasickness before Szulgowski resurfaced.

"Although I've established two world records, what I really want to do is bring diving technique to the attention of the dive authorities," Szulgowski said.

At least one local diving veteran has condemned the dive as a potentially lethal example to set for inexperienced divers who "could blow their heads off" by attempting to breathe straight from the highly pressurised air tanks.

But Szulgowski, a former Polish naval diver, believes his critics have missed the point.

"In Poland this technique is taught to all divers as an added emergency procedure in case of equipment failure," Szulgowski said.

"It upsets me when I hear of divers drowning due to a faulty air hose or regulator, because their lives could have been easily saved with proper training in this technique.

In 1979 Szulgowski set an unofficial record in Poland with a 45 metre dive using only his air tank and a safety diver.

On Sunday, however, he made the record official with the support of Carlo Fillipetti of Gosford Dive Services, and safety divers Keith Slender and Craig Bond.

"He's incredible," Fillipetti said.

"I've been diving for more than 45 years and seen some amazing things in my time, but I have never seen anything like this.

"Even during a normal dive George uses less air than anyone else. The guy is half fish!"

Editor's Note: Another Diver Magazine has refused to print this article and I can understand why. I have chosen to print this for my own reasons and one of them is ... well, it's interesting. I believe that the feat needs to be recognised for what it says and I will leave the members to decide for themselves, what that is.

I would be interested in some objective comments from your guys and I intend to print the serious, constructive submissions!!!

On a lighter note, a quotation from member #1627, thank you Neil.

"Think of the benefits, no hoses to tangle, that has to be streamlined, and if you take a straw you can suck up the little bits that get away and stick to the roof .."

TRADING POST

TANKS, WETSUITS, CAMERA GEAR

5 x 90 cu.ft. CIG tanks, in test - \$220 each. 2 x 50 cu.ft. CIG tanks, in test - \$460 pair only. 1 x 100 cu.ft. Sherwood "Genesis" steel tank, Din valve, in test - \$380. Numerous wetsuits, very old to almost new, male/female, various sizes and prices. Nikonos 5 cameras, strobes and accessories, close up kit, lenses, etc. Regulators, 1st and 2nd stages. Contact Ian Gothard (03) 459 9220 anytime.

SHERWOOD DIN MANIFOLD

For sale: Sherwood Din Double Manifold (#SVB6307D) to suit Genesis tanks. Brand new, never used. Retail \$800+, sell \$500. Phone Kevin Denlay (075) 90 9723.

STEEL CYLINDERS

72 cu.ft. steel cylinders, in test, good condition. \$125 each or \$200 for pair. Contact Andrew Phillips on (06) 285 1106 (ah) or 24 MacLaurin Crescent, Chifley, ACT 2606.

SITE ACCESS & RESEARCH REPORT 1992 - Part 1

by Peter Horne (assisted by Andrew Cox), Site Access Committee Research Rep. and Manager, CDAA Mapping & Research Group '92-'93.

In September 1992, the CDAA was 19 years old, and like a teenager advancing towards adulthood, our organisation is maturing into one of the world's most authoritative and successful cave diving bodies.

With the Association's recent changes from the old Category system to the new Cavern, Cave, Sinkhole and Penetration ratings and our increasing awareness of the importance of cave conservation aspects these days, the CDAA is now in a far better position to properly manage access to sites which were previously "out of reach" for one reason or another. Because of these positive changes and attitudes, in later 1990 I proposed that a special Committee (or "limited Directorate") should be created so that we could take the pressure off those individuals who used to undertake such negotiations in the past (... no, Mike, access to new sites didn't just "happen"!...), and the idea was quickly accepted by the National Director, Lance Mitchell (and shortly afterwards, the new National Director, John Vanderleest). In December 1990, the CDAA's "Site Access Committee" was formally created (as a separate entity from the Mapping and Research Group), and a list of priorities was immediately drawn up, identifying those sites which were deemed to be most important and which were not yet (or no longer) accessible for various reasons.

Since the nature of delicate access negotiations often involves individual CDAA members who discover a site, care was taken not to repeat mistakes of the past and such folks were offered the opportunity to serve as co-ordinators of their respective Projects. And, since new sites need to be assessed in a multitude of ways these days (environmentally, aesthetically and culturally etc), the Mapping and Research Manager (Andrew Cox) was also heavily involved during 1991 and early 1992. Other consultants, including researchers from SAUSS Inc., and CEGSA Inc., as well as involved individual divers, were also utilized in various ways, and every attempt was made

to ensure that no landowners were left out on a limb or put at risk.

1. MAPPING & RESEARCH ACTIVITIES

The Mapping and Research (M&R) Group has been relatively inactive this year. A few keen divers have continued the huge mapping project in LITTLE BLUE LAKE (under the co-ordination of Ken Smith), and several other projects have been tackled as time and money permitted.

The Little Blue study commenced a couple of years ago with John Vanderleest initially controlling the operation, but the considerable size and depth of the sinkhole (plus the theft of important survey lines which were left there!) has meant that compilation of mapping data has been slow. However, the map is coming along very nicely now, and a lot of interesting geomorphological information should become apparent when a 3-D model is finally produced.

Two relatively sensitive recent additions to our Penetration site lists are currently being mapped and investigated by M&R Group personnel - IDDLBIDDY CAVE (5L250) and the recently-discovered NETTLE-BED CAVE (5L290). Although the survey of Iddlebidy Cave (under the co-ordination of Tony Hambling) has been finished for about a year now and the cave has been opened to Penetration divers under a restricted permit system, final access decisions have NOT yet been made because the relevant involved authorities have not formalized anything.

A representative of the Environment and Planning Department's Aboriginal Heritage Unit has expressed his opinion that Iddlebidy should basically remain as a research site at this time until a decision is made with regards to the discovery of human remains there ... in fact, we should NOT assume that continued access is assured for the future at this time! We can only hope that the authorities will appreciate the manner in which the CDAA has controlled access to

Continued overleaf

date and has kept them informed of the discoveries here so that a mutually-agreeable access arrangement may be negotiated.

Nettle-Bed is a slightly different situation because no legal recreational diving has taken place at this site to date (because of the awkward access and the significant amount of damage which clumsy earlier "site raiders" caused to the floor and various important markings on the walls and ceilings); the discovery of items representing probably Aboriginal habitation and some rare underwater wall markings has led a small team of research divers (under the co-ordination of the cave's discoverer, Grant Pearce) to document, videotape and map the cave in an effort to record the feature and entice "the relevant authorities" to provide expertise and other forms of support ... not an easy task in today's tough economic climate! The markings urgently need to be protected and the amount of work remaining to be done is considerable, and we really need to involve properly-qualified archeologists who have some understanding of the problems of working in a waterfilled cave. Nettle-Bed is quite large, around 70m in length and containing two large rooms, so it is a potentially important site and it is hoped that a positive decision about management of access to both Nettle-Bed and Iddlebidy

caves will be made when the CDAA's representatives hold discussions with all involved parties (hopefully) in the next few months.

Other research projects which are taking place around Mount Gambier at the moment include the detailed mapping of ALLEN-DALE SINKHOLE (through Stan Bugg and Brian Cornell's efforts for SAUSS Inc.), exploration and videotaping dives in ALLEYNS CAVE by Chris Murphy and his dive team, and my own little mapping dives in THE PINES as opportunities arise (with Janine Tamblyn and anyone else who's interested ... rest assured, the nails and little red tags will be removed as soon as the survey is completed!). The Pines map should be most useful for monitoring possible rock movement and ceiling collapses which have recently been reported (apparently as a result of the Woods & Forests Department's thinning operations around the area, which is causing some concern and is also the subject of discussions at present).

It is hoped that a detailed mapping project will commence in THE BLACK HOLE in the near future (time and resources permitting); interested divers who are bored with look-see swims around our caves and sinkholes are invited to contact the Mapping & Research Manager if they are interested in assisting, even if they have only minimal mapping skills!

NEXT ISSUE: Site Access Negotiations.

G

CDAA INSTRUCTOR TRAINING PROGRAM SEPTEMBER 1992

A very successful program occurred recently with all candidates achieving CDAA instructor ratings.

Candidates undertook evaluations on CDAA standards and procedures, and cavern/sinkhole theory. Candidates also taught sample presentations from all facets of a CDAA course. The program proved to be a good forum for open and frank sharing of knowledge and ideas amongst candidates

and staff. All candidates are to be commended on their positive and enthusiastic attitude.

Congratulations to Ian Gothard and Warrick McDonald in attaining Sinkhole Instructor status, and Richard McDonald who attained Cavern Instructor status.

Staffing the program were Glen Harrison (Standards Director) and Tony Richardson (Instructor Training Manager).

by Tony Richardson

CDAA INSTRUCTORS

INSTRUCTOR	Cavern	S'hole	Cave	State	Telephone (h)
Ron Allum	•	•	•	NSW	(02) 398 4610
Stephen Arnel	•			VIC	(055) 26 5230
Bill Bernhardt	•	•	•	VIC	(03) 725 9716
Chris Brown	•	•	•	SA	(08) 269 5793
Marilyn Boyde	•	•		WA	(09) 349 5646
Stan Bugg	•	•	•	VIC	(03) 379 8791
Greg Bulling	•	•	•	SA	(08) 265 4978
Gary Bush	•			VIC	(03) 521 9081 (w)
Scott Carpenter	•	•	•	VIC	(056) 25 2508
Paul Cavanagh	•	•	•	NSW	(02) 804 7888
Brian Cornell	•			VIC	(059) 85 2514
Terry Cummins	•	•		NSW	(02) 888 5899 (w)
John Dalla-Zuanna	•	•	•	VIC	(03) 370 1093
Ian Gothard	•	•		VIC	(03) 459 9220
Glen Harrison	•	•	•	SA	(08) 386 3237
Barry Heard	•	•	•	VIC	(056) 27 5511
Alan Jolliffe	•	•	•	VIC	(03) 874 7669
Nick Jones	•	•		VIC	(03) 282 4502 (w)
Simon Jones	•	•	•	WA	(09) 344 4343
Ian Lewis	•	•	•	SA	(087) 23 2220
Phil Mann	•	•	•	VIC	(03) 483 0315
Max Marriott	•	•		SA	(08) 47 3360
John McCormick	•	•	•	VIC	(03) 579 0570 (w)
Richard McDonald	•			SA	(08) 278 1829
Warrick McDonald	•	•		VIC	(03) 579 2600 (w)
Richard Megaw	•	•	•	SA	(08) 344 1733
Tim Miles	•	•	•	SA	(08) 289 2030
Hugh Morrison	•	•	•	WA	(09) 409 9807
David Ogilvie	•			NSW	(02) 888 6899 (w)
Andrew Poole	•			WA	(09) 249 4048
Tony Richardson	•	•	•	VIC	(03) 754 6163
John Vanderleest	•			VIC	(03) 416 9370
Des Walters	•	•	•	NSW	(060) 25 3506
Bob Wealthy	•	•	•	VIC	(03) 789 6389
Frank West	•			QLD	(070) 537 593
Andrew Wight	•	•	•	NSW	(02) 428 2176
Liz Wight	•			NSW	(02) 428 2176
Carol Wright	•			NSW	(066) 53 6087
Frank Ziegler	•	•	•	VIC	(055) 26 5288

CDAA SITE ACCESS

Remember: Access is a privilege, not a right.
Please be considerate of landowner wishes.

CN = CAVERN S = SINKHOLE C = CAVE P = PENETRATION

SITE	LEVEL	CONTACT	ACCESS DETAILS
MOUNT GAMBIER - SOUTH AUSTRALIA			
Ewens Ponds	Nil	Dept. of Lands PMB 124, Mt. Gambier 5290 (087) 35 1111	Groups of 6 or more, phone/mail to Dept. of Lands. Smaller groups, no need. Ponds are usually closed 1 September - 30 November each year. Phone to check.
Horse & Cart Tea Tree	CN CN	Peter Cunningham PO Box 643, Mt Gambier 5290 (087) 38 4003	By phone or mail, 1 week prior.
Little Blue (Baby Blue)	S	Port MacDonnell	Little Blue - permission not required - must carry card.
Allendale	C	Port MacDonnell	Obtain key from Mt. Gambier Tourist Information Centre.
Gouldens 2 Sisters Fossil	CN CN C	Dept. of Lands PMB 124 Mt Gambier 5290 (087) 35 1111	Contact Dept. of Lands by phone/mail prior to diving. Stay out of Gouldens when pump is operating.
Ela Elap One Tree	S S	Mr. Peter Norman Private Bag 67, Mt Gambier 5290 (087) 38 5287	By phone or drop in before diving. Accommodation also available.
Swim Through	C	Valerie Earl C/- PO Allendale 5291	Currently CLOSED pending new access arrangements.
Piccaninnie Ponds	S	NPWS 11 Helen Street, Mt Gambier 5290 (087) 35 1177	Permit holders by phone. Be aware of delicate vegetation.
Hells Hole Pines Mud Hole	S C C	Woods & Forests PO Box 162 Mt Gambier (087) 24 2759	Contact Woods & Forests (Lois Kettle) by mail or phone and arrange permit. Collect permit from Regional Office, Jubilee Hwy. Mt. Gambier. No diving on total fire ban days.

SITE	LEVEL	CONTACT	ACCESS DETAILS
MOUNT GAMBIER - SOUTH AUSTRALIA continued			
Black Hole	S	Mr. Colin Traeger,	Contact CDAA Records Officer for diving deed THEN mail Booking Form to Colin
Ten Eighty	S	Manager,	
Bullock Hole	S	Barnoolut Estate PO Box 12, Mt Gambier 5290 (087) 26 6215	Traeger 2-6 weeks prior, stating names/qual. of all divers, and time slot - 1pm Saturday, 9am or 1pm Sunday, or 8am (weekdays). Closed October-November for shearing.
Max's Hole	C	Mr. Trevor Edwards PO Box 1319 Mt Gambier 5290 (087) 26 8277	Phone or mail 1 week prior to dive.
Shaft	S	Mr & Mrs Ashby	ONLY by contacting designated "guides" who will arrange access. Refer Guidelines Issue 42 - January 1992.
Engelbrechts - East - West	C P	Mt Gambier Council	Obtain key from Mt Gambier Tourist Information Centre.
Three Sisters	P	Millicent Council	Currently closed until new access arrangements completed.
Iddlebiddy (5L250)	P	Woods & Forests P.O. Box 162, Mt. Gambier, 5290 (087) 24 2759	Open 1st and 3rd weekend of each month. Only penetration divers who have completed a practical in-water cross-over. Phone Forests Clerk, Lois Kettle, for bookings. 4 divers per group per weekend. Collect key from Lady Nelson. Must show permit. No permit - no key.
Mackays Shaft	S	Ian Lewis (087) 25 9229 OR Phil Argy (087) 25 9192	4 weekends per year for first year. Groups of about 6 people, with one member having good rope & ladder skills. Indemnity forms will be provided.
NULLARBOR - WESTERN AUSTRALIA			
Cocklebidy Murra El	C	Regional Manager C.A.L.M.	Must apply for permission to dive at least 4 weeks in advance of trip.
Elevyn	P	44 Serpentine Rd, Albany 6330	
Tommy Grahams	C	Ph: (098) 41 7133	
Weebubbie	C		Small dive site next to main chamber: Sinkhole
NULLARBOR - SOUTH AUSTRALIA			
Warbla	P	N.P.W.S. Ceduna	Currently CLOSED to all diving subject to draft management policy.



CDAA PRODUCTS

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BOOKS

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Cave Diving. A Blueprint for Survival. By world-renowned cave diver Sheck Exley, this is a case study of a number of accidents that have occurred in the USA and how to avoid them. **\$10.00**

Basic U/W Cave Surveying. The standard publication for anyone remotely interested in research and survey techniques used in water filled caves. **\$15.00**

Cave Diving - The Cave Diving Group Manual. Completely new edition from the pioneers of the sport, the British. This is easily the finest reference manual on our sport currently available. Covers every possible aspect including sump rescue solo diving and advanced oxygen and mixed gas theory. Expensive but well worth it. As reviewed in Guidelines No. 37. **\$40.00**

Deep into Blue Holes - by Rob Palmer. This is the project manual written about his trips to the Bahamas, diving some of the most advanced and spectacular caves in the world. As reviewed in Guidelines No. 35. **\$35.00**

CDA Occasional Paper No. 2 - from Natitonal Conference 1981. Includes topics such as Fossil Cave, Belay Techniques & Cocklebidy 1979 **\$8.00**

S.R.T. Single Rope Techniques - published by the Sydney Speleological Society. This is the definitive work on all aspects of vertical travel in caves. Should answer most questions on rope work for cavers and cave divers alike. **\$23.00**

DES Emergency Handbook - Revised 1990 edition by Lippmann & Bugg. Printed on waterproof paper this essential first aid manual should be part of every cave divers' kit. **\$15.00**

NSS Cavern Divers Manual - The standard reference manual in Cavern Diving covering just about every conceivable topic. Also covers most principals behind safe sinkhole and cave diving. **\$15.00**

Research Handbook for Cave Divers - Peter Horne. Written by our most experienced research diver, the book is a compendium of years of experience from various sources. A valuable addition for those interested in the other side of cave diving. As reviewed in Guidelines No. 36. **\$15.00**

Darkness Beckons - Latest information on the wonderful and exciting sport of cave diving, from all over the world. The ideal inclusion in any cave divers library. **\$50.00**

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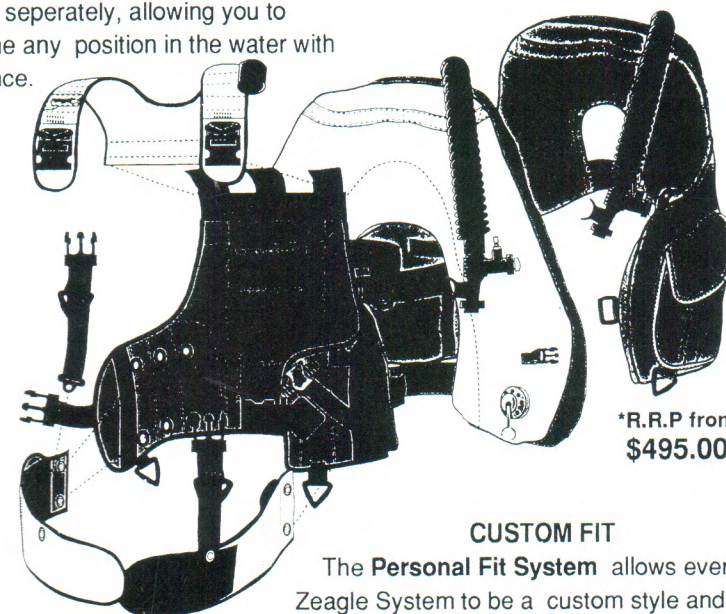
CDA Yellow Stickers You must include a stamped, self-addressed envelope. **\$0.80**

Stubbie Holders Red with black logo. Foam/plastic shell. **\$2.00**

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COMBINE ALL YOUR BUOYANCY AIDS INTO ONE!

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The **Personal Fit System** allows every Zeagle System to be a custom style and fit. No other buoyancy system gives you the versatility and comfort of a Zeagle.

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The Zeagle system inflates away from your body eliminating the feeling of being squeezed.

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SYSTEMS. INC.

FOR FURTHER INFORMATION OR
YOUR NEAREST DEALER PHONE

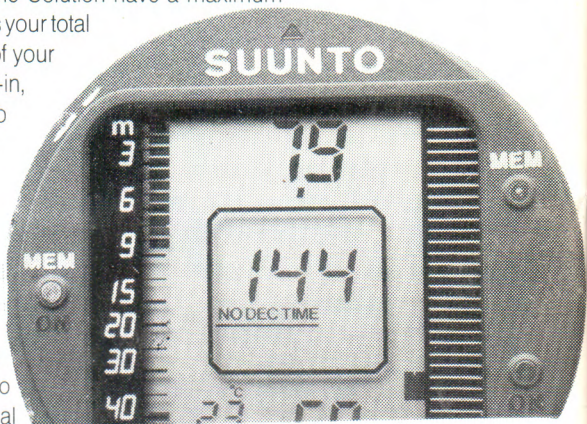
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SUUNTO SOLUTION

a dive computer for the most demanding divers

Solution is the most versatile and easy-to-use diving computer in its class. Its unique easy-access memory records dive summaries, dive profiles, as well as dive history.

The profile and summary (logbook) memories of the Solution have a maximum capacity of 8 hours. The dive history memory records your total diving time, number of dives, as well as the depth of your deepest dive over the lifetime of your Solution. A built-in, 3-stage ascent rate meter with warning helps you to monitor the speed of your ascent. The Solution combines 36 user-friendly functions in one of the most compact computers in the market. It is designed to be simple to operate – so you can use the functions to their fullest. The Solution has a clear display with large digits that are easy to understand. Wrist and console models are available. Thanks to the Solution's unique PC Interface, it is also possible to link up with a personal computer. This allows you to read and print out personal data about your actual dives, including dive profiles and tissue saturation levels. In addition, the software program allows you to enter complete logbook information for every dive. The built-in dive simulation lets you plan your dives in advance.



SUUNTO RELEASES NEW DIVE COMPUTER SUUNTO COMPANION

much more than a digital depth gauge and dive time

The Companion is compact, easy-to-use, easy-to-read, easy-to-understand and a high quality sport diving computer for Beginners and Advanced divers.

THE COMPANION SHOWS: • maximum, actual and ceiling depths • dive, no-decompression and surface interval times • temperature. **TELLS TO:**

- ascend, when the no-decompression limit has been exceeded
- stop at the ceiling and descend, when ceiling has been exceeded
- slow down, when maximum ascent rate has been exceeded.

WARNS OF: • not-safe-to-fly • low battery • omitted decompression stop during previous dives. **REMEMBERS:**

- maximum depth, dive time and surface interval time for five most recent dives (Log Book) • violations of decompression stop and ascent speed

PLANS:

- following dive, showing no-decompression limits for various depths based on previous dives.

ADJUSTS: • to altitudes up to 2400m • for more conservative, no-decompression limits.

