



C.D.A.A. Newsletter
No. 81 - SEPTEMBER 2002

CAVE DIVERS ASSOCIATION OF AUSTRALIA

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Editors Note...

Thank goodness for a change in the climate. Whilst designing the June issue, back in the cold of Winter I was rugged up, heater running full-on and diving was little on my mind. Even now, the Spring water temps down here in Melbourne are only 13 degrees or so. In mid September I dived Fish Rock Cave on the New South Wales mid north coast... what a dive, what a cave... now I get the idea of what you all enjoy, only this cave is smothered in corals and anemones and just alive with fish and critters. It's all comparative though, a dark place with rocky walls and a ceiling and nowhere to go but for maybe a small air pocket. What a buzz.

A few days prior I spent the Saturday morning at OzTek in Sydney. A fantastic and well organised exhibition and conference for all divers. Congratulations should go to Richard Taylor and everyone who helped organise the show and exhibited. There's an overview of the show in this issue of guidelines.

There's also some other great articles from lesser-known divers, probably just like yourself (no offense), so keep 'em coming... it just makes for a better reading issue of guidelines for all members. Catch you next issue, Dave Bryant.

AN OMISSION...

In the last issue of Guidelines there was mention of the Easter Penetration Course which Martyn Farr had been invited to observe. We failed to give thanks to Course Co-Ordinator Barrie Heard and fellow Instructor Max Marriot who ran the course. As the officer looking after Guidelines I apologise to both gentleman and hope no offence has been taken.


ARTICLES FOR GUIDELINES...

Members wishing to submit articles for inclusion in guidelines can do so in the following manner:

- Send articles & photos via post to:
The Editor, David Bryant,
P.O. Box 2198, Rosebud, VIC. 3939.
- Email to seapics@alphalink.com.au
- Any files for inclusion should be saved as MS WORD text files or Quark if using a Mac. If mailing please save pics and text to CD, not floppy disc and include a hard copy, thank you. Colour photos can be supplied for scanning.
- Pictures saved from digital camera or scanned from photos must be at least 200 ppi at 15cm wide or equivalent, and saved as Greyscale as JPEG's. Photos can be sent to the editor for scanning and will be returned asap.

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"Repunzell's Trusses"
McCavity Cave,
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GUIDELINES is a newsletter of the Cave Divers Association of Australia. All articles for the following issue are to be sent to the Editor, David Bryant, PO Box 2198 Rosebud Vic. 3939. All articles and submissions shall automatically constitute an expressed warranty by the contributor that the material is original. We assume no responsibility for unsolicited material. Articles and information may be reproduced without prior permission provided reprints are accredited to the authors and GUIDELINES. Private advertising for caving and diving equipment may be advertised free at the discretion of the Editor. Opinions expressed in GUIDELINES are those of the individual authors and are not necessarily those of the C.D.A.A.

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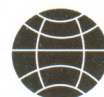
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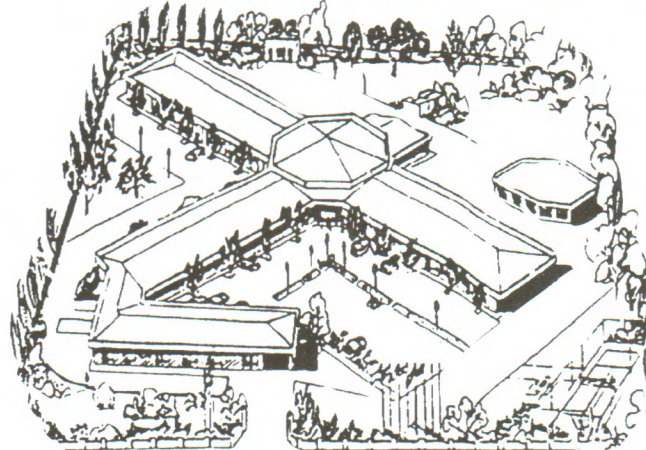


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OzTek 3

SYDNEY,
SEPTEMBER
14th & 15th.

The Directors decided once again to support Oz Tek. This is the third time we have attended and once again received a fantastic reception. We were fortunate to be given a stand close to the seminar rooms and next to the entrance of the workshops. This enabled maximum exposure for us and this showed in the amount of product sold and membership renewals. Waving the flag is always good business but being there and answering the questions face to face helps keep the CDAA accessible to it's members.

The drive to Sydney, loaded with stock wasn't so bad it was finding the venue in Redfern, not the best suburb in Sydney and not the nicest of streets to drive around and through. Terri Allen (Records Officer) met me in Sydney, having just flown in from a diving holiday in Samoa, to help set up and man (?) the stand for the two days. Geoff Chambers, Terri's partner continued on to Melbourne to go sailing for the weekend, so missed out on the show. The drive back to Melbourne to host a night with Bill



Terri Allen (Records Officer) and Warrick McDonald (National Director)

Phillips from Mexico was not the easiest after three late nights and two days standing on a hard floor.

The show, with more speakers than you could throw a stick at and an equal number of workshops was well attended. As always a large group of Victorians and a surprising number of South Australians visited our stand. The disadvantage of manning the stand meant that we could not attend the presentations. The few we did see were excellent and CDAA members like Paul Hosie discussed and presented a DVD that wowed the audience. The final hour saw Richard Taylor (the shows convenor) sacrifice his hair for the Westpac helicopter Rescue Service. Without beard and hair he sure is a different person to look at. (See photos) The Oz Tek 3 Dinner held at Wolfies at the Rocks, on the Sunday night saw CDAA members Tony Davis, Paul Hosie and Ron Allum recognised for their contribution to Cave Diving.

It was a very successful show for the CDAA. We were approached by at least 20 people wanting to start a Cavern Course and we referred them to our Instructor list,

others inquired about lapsed membership and Terri made sure that they joined up on the spot. It was interesting to watch Terri expound the values of paying for multiple years, most signed up for this option, must be something to do with the work involved in making all those cards. Sore feet, late nights obviously spent promoting the CDAA and dry throats from all the talking resulted in a successful outcome for the Association.

Remember our 30th Anniversary party weekend is coming up in 2003. Our Guest list is growing and we hope to confirm our speakers soon. We have confirmation from Andrew Wight who will be showing film on the "Bismark", Paul Hosie, Martin Farr and Lamar Hires are yet to be confirmed. The theme is party time and we are planning a "big" time for all who attend.



Event organiser Richard Taylor had a haircut in support of the Westpac helicopter Rescue Service

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How Close are we to Fossils?

By John Dalla-Zuanna & assisted by Dave Nuttall

Whilst diving Tank Cave the constant question of "How close are we to Fossils?" is often heard. For many years, and dives, the search continued to determine whether it was left or right of the G tunnel.

So when John Vanderleest told me about the "toys" that were used during the Walkulla2 Project, the Digital Mapper, the Fat Boy scooters, and the Thumper, the latter certainly sparked my interest. John had given me the link to Bob Pearce's Thumper articles and almost simultaneously, by asking the right questions I was, in a round about way, introduced to Dave Nuttall, a radio technician.

Dave was able to quickly comprehend the experiences of the Walkulla designed units and went about to design our own Thumper.

Thumper System

The main design considerations of the "Thumper" were to produce an underground surveying system with:

1. Maximum possible range
2. Minimum turnaround time between position fixes

To enable an underground radio location system to operate over the maximum possible distance, it is necessary to keep the wanted signal out of the noise. To achieve this, the transmitter needs to transmit a powerful signal and the receiver needs to be very sensitive and to reject noise and

interference.

The transmitter produces about 5 watts of power, similar in level to a CB radio. This level is a compromise considering range, battery life and battery size. With the chosen battery, a 1.2 Amp Hour SLA, the transmitter can run continuously for about 2 hours.

This is where Dave gives me this simple warning: Both the underground and above ground thumper units can produce a powerful magnetic field. This can erase your computer hard (and floppy) discs, erase the magnetic strip on your credit cards and potentially interfere with your dive electronics. You must thoroughly test any electronic device you intend taking with you to ensure it is not compromised by the magnetic field.

Sources of noise and interference

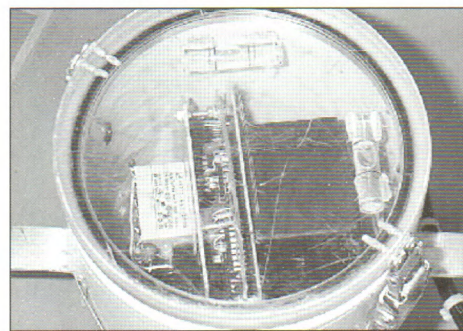
1. Mains power lines
2. Electric fences
3. Lightning
4. Natural radio signals
5. The receiver itself
6. Thermal noise of the antenna

The system frequency was chosen to lie in a range that is minimally affected by natural noise and radio sources. The exact frequency of 3.475 kHz is exactly half way between harmonics of the mains greatly also uses low noise amplifiers and narrow bandwidth filters to keep noise and inter-

ference at a very low level. With the narrow bandwidth of the system it was necessary to incorporate Crystal Controlled Phase Locked Loops to keep the two units on exactly the same frequency.

Antennas

The antennas are 60 cm diameter air cored wire



The heart of the Thumper © John Dalla-Zuanna

loops. These are tuned to resonance with capacitors current. Both antennas are electrically identical but the above ground unit has a wooden support where the underground unit has a slotted PVC pipe supporting the turns.

Two-way system

In order to keep turnaround time to a minimum and greatly reduce battery consumption it was decided to incorporate a means to inform the divers when the position had been fixed. This required both a transmitter and a receiver to be incorporated in each of the above ground and the below ground units.

Underground Unit

The underground unit is transported to the position to be surveyed upside down (it has a mercury on-off switch). When in position the unit is flipped over which turns the unit on. The unit also

has levelling bubbles to ensure that the loop is horizontal.

Whilst transmitting, the diver sees a RED Light Emitting Diode (LED), which continually cycles 15 seconds on and 5 seconds off. During the off periods the receiver operates and listens for a signal from the surface. Originally this involved the diver listening for a buzzer emitted by the unit however after a few dives listening, it was found that bubble noise and a continuous ringing noise in the ears from extraneous sources, made the listening more difficult. Now, if a surface signal is



John Vanderleest & John Dalla-Zuanna exiting the water with the Thumper © John Winkler

IMPORTANT REMINDER...

Please note that fees **WERE** due on July 1st.

Do not let your membership expire.

Fill out the form in the middle of this magazine and mail TODAY!

GUIDELINES DEADLINES

If you would like to contribute to Guidelines in 2002/3, you should note the following deadlines for submission of materials:

Deadlines for publication:

20th November for December 2002
20th February for March 2003

WANTED



ARTICLES FOR GUIDELINES

IF SIGHTED PLEASE SEND IMMEDIATELY, TOGETHER WITH ANY PICTURES TO:

The Editor, David Bryant
P.O. Box 2198, Rosebud VIC 3939.

REWARD

An even better Guidelines for everyone.

received a constant GREEN LED operates and the transmitter is put in power saving mode transmitting for only 5 seconds out of every 40. This signals the divers to flip the unit over, switching it off, and move on to the next location to be surveyed.

Above Ground Unit

The above ground unit is normally operated as a receiver, however when the location has been pegged a button is pushed keying on the transmitter. The operator must wait for the 5 second break in transmission from the underground unit and then hold down the button for about 5 seconds. Positive confirmation is given because the underground unit changes its cycle to power save mode and a green LED is seen.

Depth Measurements

The Thumper has the same depth measuring capability to the "pinger", that is when the surface loop is at 45 degrees to horizontal and a null signal is found one can determine the distance to ground zero. However as we were close to finalising the surface topography with John Winkler's work, we chose to simply record the ceiling and floor depths at each station.

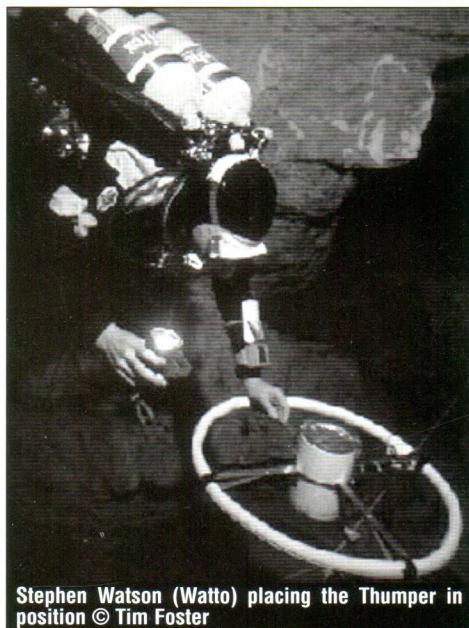
Water depth, surface topography data and a marked datum water level in Tank Cave allowed us to quickly calculate the thickness of rock and water.

Pro's & Cons

The Thumper built met the two primary objectives. The housing of the underwater components has been built to withstand depths up to 100m and the expected range of the unit is over 100m penetration but further tests will confirm this. Whilst the unit is somewhat cumbersome looking, it did not present too much hindrance swimming underwater, however it predominantly requires two hands, like holding a steering wheel, whilst swimming and is slightly negative.

The major advantage of the Thumper is the ability to map many points in a single dive. A simple dive up C tunnel allowed all the 8 key stations to be located in one dive. The surface crew usually took approx 2 minutes per station to find ground zero! This was a comfortable time for the diver to wait at any one location.

Another major advantage is when the Thumper is placed in the far extremes of Tank Cave, the nasty,



Stephen Watson (Watto) placing the Thumper in position © Tim Foster

silty, grovelly or very far places, the diver can exit with the unit and not leave it only to have to go back and pick it up when it all settles.

Possible Future Improvements

The use of a PIC micro controller would enable all of the digital circuitry and much of the analogue circuitry to be replaced with a single device. All aspects of the unit including frequency, timing and LED indications could then be easily changed or customised.

So which way is Fossil's to the G tunnel?? Our results so far show it to the left of the G Tunnel, past G8. More details soon....

Thanks go to:

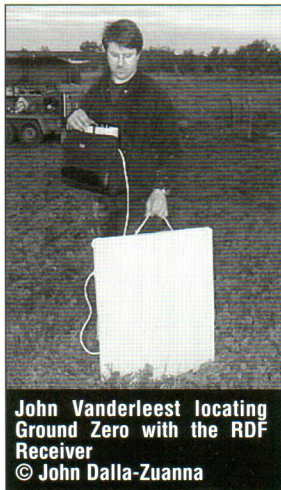
Dave Nuttall for design and construction of all the electronics, and patience for putting up with me.

John Vanderleest for the inspiration and being my dive buddy on many thumper dives.

John Winkler and Ken Smith for giving me the impetus to get the project right and done.

Bob Pease whose theory we used in creating our thumper design.

And the many others whose tireless efforts in the background made this project successful.



John Vanderleest locating Ground Zero with the RDF Receiver © John Dalla-Zuanna

CAVE DIVERS ASSOCIATION OF AUSTRALIA

NOTICE OF 2002 ANNUAL GENERAL MEETING, ELECTION OF OFFICE BEARERS AND VOTING FOR MEMBER MOTIONS AND CONSTITUTIONAL AMENDMENTS...

This notice is issued pursuant to Clause 32 of the Constitution and serves to advise members that the Annual General Meeting of the Cave Divers Association of Australia will be held on Sat 5th October, 2002 at the International Motel, Mt Gambier. The Annual General Meeting will commence at 10.00am and will conclude no later than 12.30pm.

Any member who did not receive a ballot paper and wishes to vote may do so by emailing cedwards@teksupport.net.au or by ringing same on 0417 116 372 and providing a return fax number.

This notice also serves to call for:

- **Nominations for Standards Director and Business Director.**
- **Member motions**
- **Amendments to the Constitution**

Nominations for the Directorate positions must be received by the Returning Officer no later than the close of business Monday 19th August, 2002.

Member motions and proposals for amendments to the Constitution must be received by the Business Director no later than close of business Monday 19th August, 2002.

Items received after this date will not be accepted nor will any extensions to this date be granted.

Members intending to nominate for an Office Bearer position must be an eligible member of the Association as defined in the Constitution. Nominations should be accompanied by a precis not exceeding one hundred words detailing skills, experience and achievements relevant to the duties and responsibilities of the nominated position. The responsibilities of Office Bearers are contained in the Constitution of the Association.

Nominations must be in writing and be signed by the nominee, the proposer and the seconder all of whom must be eligible members of the Association. The polling date for the election is Thursday 3rd October, 2002.

The constitutional amendments carried at the 1998 Annual General Meeting and reported in issue #67, (December 1998) of Guidelines, provided for two year terms for Directors starting from the 1999 Annual General Meeting. Nominations in the year 2002 will be for Standards Director and Business Director, and will then be effective for two years, (Section 26(3), 26(4)).

The election of Office Bearers and voting on amendments to the Constitution will be conducted entirely by postal ballot. If you wish to vote you must be an eligible member of Association, you must use the ballot papers to be provided in the next issue of Guidelines or by special mailout.

You must ensure the ballot papers reach the Returning Officer no later than close of business, Thursday 3rd October, 2002. Detailed voting information will be provided with the ballot papers. Questions may be directed to the Returning Officer, PO Box 290, North Adelaide 5006.

DIVER RESCUED AT HELL'S HOLE

These were the headlines that greeted me when I arrived back from a very rapid long weekend in Mt Gambier to my current client.

In fact – the full article is reproduced here from the local Mt Gambier press:-

"An exhausted diver had to be hauled out of a sinkhole in Caroline Forest, south-east of Mount Gambier, on the weekend. The alarm was raised by the man's diving partner.

State Emergency Service controller Lyn Andrews says cold conditions probably sapped the energy of the Victorian diver, who was retrieved from about 45 metres inside "Hell's Hole".

Ms Andrews says the man did not need any hospital treatment.

A total of 15 State Emergency Service personnel were involved in the rescue on Saturday afternoon."

Never happen to me – you say? Think again:- I had been itching to dive Hell's for some time – ever since I had been shown the location on my Cavern Sinkhole Course. Having completed some training and getting experience over the last few years in vertical trips with my dry caving club – I was confident I could do it. All I needed was a buddy. And my regular buddy wouldn't have a bar of it! Not remotely interested.

However another part-time buddy (Ocean Diving only) who did the CDAA Cave Course with me was very interested! So we set the date well in advance, and made the plans.

I collected my gear:-

- 3 x 35m plus ropes
- Chest ascender
- Hand ascender
- Cowstails
- Rack
- Helmet
- Chest and sit harness, etc.



• Various hardware for connecting and hauling

I then collected the extra gear we would need for my buddy:-

My own 15m ladder, a borrowed 15m ladder and a borrowed 9m ladder

Additional descender (a figure eight – because I assumed my buddy had used these before in their Cavern Sinkhole training) I picked him up early Saturday morning, and we took the long way to collect one of the ladders.

I rigged the "pitch" perfectly:-

Figure 9's on the rope with a primary and secondary anchor to the gantry.

The 3 ladders chained together to reach the water (with at least 8m spare...but I reckon if we hadn't of gotten the 3rd ladder – it would have been too short) anchored on the gantry.

Me harnessed up for a rack descent and a prusik ascent.

My buddy harnessed up for a figure eight descent, ascending on the ladder.

And he was looking forward to it immensely. Numerous times on the way down we discussed the climb. "35m. No problem." "I'm very fit." "Done this before" "Free climbed with a belay on the Cavern/Sinkhole Course". We were both very confident.

With a quick revision:- C for closed, O for open. Here's the brake – control. Gloves on hands, grip tightly., etc

Then a slow controlled descent from my buddy. And halfway down – excellent form. Very controlled, perfect alignment – and I was very impressed. Then the realization that he had forgotten his fins! No problem

– after a little bit of good natured ribbing from me – as I sent them down attached to his gear, the rope rigged on my rack for a really slow descent. Then my gear. Then me. And then the realization that the rope (brand new) was a little faster than I had estimated, and had threaded the rack for an older thicker rope (for those of you who don't use racks – the more bars you put on the slower you go until you simply don't move). As such I hit the water with a bit of a splash, just losing control a little at the end where the wet rope (which had stretched under the tension of my buddies body weight) came out of the water. Then the realization that I had left my mask and fins atop!

So I was left with two options (in addition to taking the ribbing back of my buddy):-

Dive as is. Climb back up and get my fins.

I chose diving as is (luckily – my buddy saved the day with a spare mask in his drysuit). And it significantly improved my anti-silting technique! And so – dearest and rapidly graying CDAA Instructor of both my Cavern/Sinkhole and Cave (I bet you can't wait to see me on a Penetration course!) – we have finally sorted that one out! In order to avoid kicking up silt with your fins, remove fins.

And so it proceeded. I locked off my Prusiking equipment on the rope as it is simply too cumbersome to take with you, leaving the chest ascender and rack attached. And we descended.

Hell's is a great dive. A silt mound sloping away to reveal slabs of rock, with one huge slab forming a swim through, many angles on the walls, and even more than half a row boat. And then the dive was over.

Me in the wetsuit a bit on the chilly side. My buddy in his dry suit nice and warm (or so I assumed).

And so I ascended as quickly as I could, the first few Prusik's being done with cold hands but rapidly warming up on the way up. And 10-15 minutes later I was there – taking it very easy, confident pace.

Clipping on to the railing with my long cowstail, I disconnected myself and turned my attention to getting the gear up as my buddy clipped on the first set of tanks.

They were a bit heavier than expected...and I attempted to re-jig the rigging to gain better leverage. I only had one chance when my buddy started saying that he wanted to come up "Now".

The gear was abandoned (one tank clipped off, the other floating free – so one of us would have to return later that afternoon). And my buddy started up, and stopped. A few meters out of the water. And then went back down again. At this point I started getting nervous....!!!

And we discussed the situation as quickly and as sharply as I could – given the sound issues out there (you can barely hear each other shouting 35m apart). He was tired. And cold. And kept having his drysuit valves and computer tangle up in the rungs of the ladder. And worse – he knew he couldn't make it up.

There was a brief pause – shock?, confusion?, and then I was off – to call for help. There was no way – regardless of how I rigged it, that I could haul him out by myself.

And whilst I had seen the experts in my dry-caving group perform mock "Prusik rescues" (the victim simply hanging from a cowstail – the rescuer Prusiking up) – I doubted I could haul him and me up a second time.

Trying the mobile at the site (no reception) – I then had to drive 4 km to find some (no speeding fines received!).

Calling first a group of friends who were in the area diving more conventional cave sites (they were unavailable – getting instead their answering service), and then DAN.



There was a little bit of a delay in regards to getting the particulars of an emergency cave situation across with questions like:-

"How far is he from shore?" answered with "He's 35m down in a hole". Which prompted:- "So he's not on the surface?" "Yes – but he's 35m down in a hole". "Can you see him"

Frustrated. Angry – and thinking of hanging up and calling the Police or the SES. But not her fault – a few deep breaths. Begin again:-

"I have a diver down in Hell's Hole – a Sinkhole dive site in Mt Gambier on the Nelson Road. He's on the surface but cannot get out of the hole." Etc.

And then:- "Thank you sir – a Doctor here will co-ordinate the issues. Can you return to keep an eye on your buddy." "Sure"

"What number can you be contacted on sir"

AAARGHH! But calming down:- "I can be contacted on Channel 15 on UHF. I can't get mobile reception in the area."

And so it was sorted. And I returned to wait and communicate what had happened to my buddy. The

Ambulance arrived, expecting a bends hit. I explained. The Police arrived. I explained again. The SES arrived. I explained again! The co-ordinator took charge, and organized the group (15 or so...) to first lower down a very experienced rescuer, who promptly hooked my buddy on to a rope.

And shortly after he was up. And safe. And taking things far better than I had...

The issues:-

I made a couple of minor mistakes because I was focusing on helping my buddy. One in particular could have resulted in injury (accelerating on the wet rope), meaning my buddy had to get out to save ME. This could have been a twisted ankle if not worse were we landing dry, or perhaps a clunk of a head against an old log or tree stump. I hate to think of this scenario.

The delay with my buddy in the water could have been shortened - I had more than enough rope to clip on both sets of gear and belay my buddy - it just wasn't ready. This may have improved his chances - or it may have meant he only got a little further up before tiring out.

I had dived with my buddy for that day in the OCEAN before. I knew well my regular Cave Diving buddies capabilities (he is an outstanding technical diver). Both he and I openly admitted that we were not capa-

ble of 35m ladder climbs (hence I chose Prusiking and he chose to stay home!) but my buddy for the day - I could only go on his own recommendation. My buddy was overconfident and underestimated the effort required for such a long climb.

The bottom line:-

If I had of been incapacitated or stuck - the story may have been very different.

The ladder climb is HARD. It is now a free hang and very LONG. You need both excellent technique and excellent fitness to do this. Take it slow. It's a big effort in and out. It is cold. Be prepared for this and cut dive times short if needed.

Critical items - if you are to attempt Hell's:- Prusiking is ALWAYS my preferred ascent method over and above 15 m. It is just so much easier. If you have good technique you can climb the ladder - but even if you know what you are doing and haven't done it in while - it can be a big shock. Belays are essential on a ladder if used. Have your trip plan logged with someone with a firm call in time - and instructions to follow if the call is late.

Surface support - even if it is a single individual armed with a set of emergency numbers. Ideally - it's a BIG group - with only HALF the big group in the water, and have pulleys rigged ready to go.

If you must go in pairs - be 100% aware of the capabilities of yourself, your equipment, your buddy.

Ex the Cavedivers list:-

The EKPP (European Karst Plain Project) pushed the Doux de Coly on August, 22 to 5675 mtr (18618 ft) distance to air.

The dive started in the morning of August, 22 at 7:03 am and lasted 18 hours 21 minutes. The divers Michael Waldbrenner and Reinhard Buchaly surfaced in the morning of August, 23 at 1:24 am. 675 meters of line were added and surveyed from their 5000 mtr end-point of the last year.

Both divers used a double RB80 rebreather configuraton with 2x 20 liter backmounted bailout cylinders (trimix 16/80). Three drive stages were used with 2x trimix 22/70 and 1x 16/80 and five magnum Gavin scooters per diver.

All rebreathers were fitted with a custom counterlung optimized for

the depth of the cave.

Lighting was with a 18 Watt HID with a custom made reflector powered by 20 Ah Nicads.

The dive started with a visibility of 15 to 20 meters (50-65 ft). Due to heavy rainfalls two days ago the vis reduced after approx. 1000 m (3300 ft) distance to initially 4 meters (13 ft), then 2 meters (6 ft) visibility.

Luckily the vis improved again after 2300 meters (7500 ft) to the starting vis. Again at 4500 mtr (14700 ft) the vis went down, but it improved after further 200 meters.

When reaching the endpoint of the last year at 5000 meters (16400 ft) it was expected that the cave would continue the downslope. But it stayed at a level between 65 and 60 meters (213 - 197 ft). The cave got smaller at 5300

meters (17400 ft) where the tunnel ended in a T. Choosing the way to the right, the now smaller and silty

tunnel went in eastern direction til the line was tied off at 5675 mtr.

Bottom time was around 8 hours. The decompression took place in the shaft 300 meters from the entrance. Total deco time was about 9 hours 15 minutes.

Additional time was spent traveling the shallow part and entering and exiting the habitat for the last three hours of deco. Water temp is around 12,5° C.

Both divers felt well after the dive, and after a good sleep jogging the next morning showed no lung problems.

A more detailed description of the dive and the team effort will be placed on a website in a few weeks. We want to thank our great DIR support team for their excellent work. We had a lot of fun within the team and enjoyed the dives.

Reinhard Buchaly and Michael Waldbrenner

CDA - SA LANDOWNERS FORUM

Friday 6th September 2002

Karren Laudenbach the Senior Ranger for Forestry SA called a meeting of interested parties to discuss opportunities and issues relating to cave-diving within the region.

Rob Brennan and myself attended on the CDA's behalf and also attended a meeting with Cliff from Lifeline, at Englebrechts Cave at the conclusion of the Forum.

Discussion took place about a number of things and I have listed below some of the highlights that will effect members.

1. A list of trained Recovery Divers, (CDA members) and their qualifications, to be supplied in case of a rescue or recovery operation. This will allow the Authorities to contact the CDA for assistance. We should always remember the priorities when dealing with a situation. In a rescue the police would only be called after other attempts have failed or the situation warranted them attending. Normally in an accident scenario it will be a recovery, in this case the Police MUST be called.

2. SRT and other climbing skills to be reviewed. Hells Hole will require a minimum of 4 divers attending, one with prior experience of the site. Ideally with a responsible observer on the surface. Other sites may require rope techniques that will require proper training. The CDA recommends that all training should be sought from a qualified Instructor.

3. Englebrechts Cave, Easts and Wests require special consideration. Some of the points discussed were:-

(a) A responsible person must be advised about the dive plan and the time that you are due back. This is the same procedure that boat users are required to follow, so that a rescue can be initiated if they are overdue. Imagine a mishap in the cave and you were sitting in the air space until the next group of divers came in, it could be a long time!

(b) Divers must leave their telephone number so that the staff at Lady Nelson can make follow-ups. This is to cover divers who do not return the key and if overdue.

(c) The lights on the outside of the boxes once in the cave are the only ones that should be turned on. These lights swivel so that you can direct them where you want. If the lower boxes are open you may use these lights but remember to turn them off. The floor lights are now run as a low voltage system and are therefore battery operated, if you leave them on you will flatten the system.

(d) Locks have caused more than a few problems and we are establishing a system to secure the key. Until then always in Easts, lock the padlock onto the gate with the latch open. This ensures that you can not be locked inside but intruders. Wests requires the chain to be locked and not left loose. If you leave the chain loose intruders may steal the chain or worse lock

you inside.

(e) When in either cave don't touch the lights used for lighting the water. The light in Easts has been moved again and the Guides have reported that this is not the first time.

4. Long term planning is now taking place for the Pines site. The trees are going to be removed and the area cleared. It was suggested that a fenced lawn area could be established with tables, chairs and overhead protection. This will be an ongoing task between Forestry SA and the CDA.

5. Mt Gambier hospital staff's still are not aware of DCI treatment for divers and the CDA was asked to help.

6. Ross Anderson the Senior District Ranger for DEH requested that if divers find nets in Pic's would they please remove them. Eels are protected and illegal fishing takes place from time to time.

7. Discussion took place about Barnoolut and the legal ramifications of their current access policy. Phil Argy and June from Lady Nelson both volunteered to speak on our behalf to gain access for the CDA. Bob McDonald representing the Police offered to talk to the Manager re the position they would be in should there be an accident or claim. Again it was pointed out by the Government representatives, that the CDA are the group recognised by the SA Government to control SCUBA diving activities in caves.

Warrick McDonald
National Director.

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~SITE DIRECTORS REPORT SEPTEMBER 2002~

I was elected unopposed at the last AGM of the CDAA (October 2001). I wish to thank Steve Arnel (previous Site Director) for his dedication to the job and the numerous volunteers that have given up their time to assist in making the dives sites available by arranging time slots, guides etc. I also need to thank Mark Pain for his time in allocating Kilsbys and John Vanderleest for Tank.

Since then, we have been working on many items. Currently we have been given approval for the installation of "gear up" benches at various sites. The association is still in need of volunteers to continue the fine work that has been completed so far. In particular, we require volunteers for the installation of the "gear up" benches and various mapping projects that have either been started or are about to start. Please let me know if you are interested.

We are still trying to negotiate for the re-opening of Barnoolut and meetings are still in progress. On another note, Tricia McQuade from the Lady Nelson Park retired on the 8th March this year. It was sad to see her go because Tricia has always been an enormous help to all members, and we wish her well for the future. Trevor Wynniat (Forestry SA) has been transferred to another part of the state and has been replaced by Karen Laudenbach. Trevor will also be sorely missed and we also wish him well for the future, and welcome Karen.

Many site improvements have been undertaken. My time seems to have been taken up by consoling upset landowners because our divers seem to be having trouble understanding the access requirements to certain sites. Please ensure that you know the correct procedure as the landowners give us the privilege of diving in their sites - it is not a right.

Thanks also to all those people who put in so much of their own time often for no thanks, such as Linda Claridge and Gary Barclay who look after Shaft Access, Gerret Springer who now kindly cares for Kilsbys and Noel Dillon who along with the most thankless job of all (Investigations Officer) has now taken over from John looking after Tank Cave.

Safe Diving Rob Brennan, Site Director.

PS If you haven't been to Little Blue lately - go and take a look. You will be amazed. Photos and a story in the next issue!

ELA ELAP NOW OPEN!

Many of you will be pleased to learn that the tree has finally sunk in Ela Elap. Peter Norman has very kindly agreed that access will once again be available. PLEASE remember that access is a privilege. The Normans cannot always be at home simply because we want to dive.

If no one is at home, then go to another site. If Peter says you can only access one or other of the holes then so be it. Under no circumstances is anyone permitted to enter the property without permission. Neither One Tree nor Ela Elap can be booked so DON'T ASK. Arguing with the Normans about them not being available, or because you forgot your card etc will bring action from the Directorate. Any member caught breaking the rules on this site will be suspended and fined. Peter has made it very clear that he is reaching the end of his tether. PLEASE do not ruin future access.

LOOKING FOR DIVERS FOR NZ DIVE TRIP

I'm looking for interested parties for a dive trip to
New Zealand from February 21-28, 2003

Itinerary:

**3 Days Live-aboard diving Mikhail Lermantov.
3 Days in Nelson at Riwaka Cave and PuPu Springs
Very Cheap Trip.**

Have 3 starters, need another 3!

Please respond to gmorgan@didata.com.au or call 0419 812 431
if interested in the Liveaboard or Nelson Section.

Cheers, Gareth Morgan.

CAVE LIGHTS...

No, not underwater ones, but the dry caving ones. Some time ago there was a short mention on the use of LED's in this role. Recently I started looking more closely into this and found that in the last few years the use of LED's has increased dramatically. For example if you own a Petzl Duo, Karst Sports can supply a 5 led upgrade module for \$US28.95. REI.com will sell you the whole beast with a 3 led insert for \$US69.95. Maya Solar in the UK have an amazing range of replacement led-bulbs all ready to go, mounted on to either bayonet or Edison type bases.

A small trap here though, whilst the bulbs are somewhere around the 18 pound mark, the postage is a whopping 20 pounds! Absolutely outrageous for an item which weighs next to nothing. While you're surfing, check out www.photon-light.com and www.theledlight.com for other interesting items. Why would you do I hear? Well mostly because of power consumption, but also light output and durability. The 3 led unit for the Petzl Duo is rated at 180 hours burn time using the 4xAA battery pack. I hope to get hold of a couple of units to test in the near future so I'll report on that when I do.

INDEMNITY REMINDER...

A reminder to all members that your indemnities for the sites controlled by the Department for Environment and Heritage expire with your CDAA certification. In other words you must renew that indemnity as often as you do your membership if you wish to dive Pics, Gouldens, Sisters, Fossil or Ewens. On that subject don't forget that Kilsbys indemnities need to be renewed every FIVE (5) years. If it's been a while then download a new one from the web site and forward it to Gerret Springer whose details appear on the access page.

Publications and Records Director Report

Reports are not the easiest of things to write. What to say, who to thank etc. So in no particular order thanks to the following:- **Lorraine Hardman** who, up until quite recently was our Records Officer. She did a great job and was also a great buddy out on the Nullarbor! **Terri Allen** who has taken over from Lorraine with a burst of energy that frightens me! If she can sustain half the level for the next few years, we are in great shape. One of my objectives was to establish a modern membership data base and Terri has taken to that task with fervour. Hopefully by next year we will have, amongst other things, an electronic photo on record of all members who wish it, thus negating the need for paper ones at renewal time. If you haven't sent Terri a jpg of yourself yet, why not do it. By the time you read this we will have selected parts of the data base accessible to places like Lady Nelson and SA Forests, so that when you turn up without your card (God forbid - nobody ever does that do they!) the ladies can check say your claim against the data base and hey presto! Thanks to Tony Richardson for his help on this and also for his ongoing maintenance of our website.

Thanks too to **David Bryant** who is the current editor of Guidelines. As you would have noticed our cover is now full colour thus

ensuring that we do the best for both those kind individuals who submit photos and for our advertisers.

You may note from the accounts that Guidelines has been kept at a similar cost to the previous year despite the improvements to its appearance.

Deb Williams also deserves thanks on behalf of all the Instructors out there. Deb tirelessly produces Instructor Materials and member manuals so that you guys and girls can do courses and get what you need for them.

Product sales have moved along smoothly. I have attempted to keep stock levels to a minimum so as to reduce the amount of money tied up for long periods of time. The drawback to this policy has been significant delays in supplying some items. In particular there were long delays with regard to the Darkness Beckons. That has now been resolved. Whilst the P&L sheet shows a small loss, that is due to the timeliness of purchases which occurred in late May/June and not because we are selling at a loss.

Lucky last, thanks to all who have submitted articles and photos for guidelines over the year, especially you Helen - I found it the other day - and I am sorry it's taken so long to get back.

Chris Edwards

NOTICE RE KILSBYS...

A reminder to all members wishing to dive Kilsbys that **EVERYONE MUST** meet at the corner of the Sisters Road at the appointed time and travel together on to the property. Likewise the rules are that everyone leaves together. Recently because this rule was not met, a gate was left open, allowing stock to intermingle. The Landowner was not impressed! Also please remember that non-divers are not permitted on the property. Please leave your friends and loved ones elsewhere.

MEMBERSHIP RENEWAL

- 1) Please print and fill out the Membership Application Form
- 2) Include your CDAA Number
- 3) Include 2 photographs of passport quality and please write your name on the back of each photo
- 4) Enclose your cheque for \$70 per year PAID (including backfees - \$45/year to a max of 5 years)
- 5) Enclose a stamped self-addressed envelope



**AFTER SEPTEMBER 1ST ANY UNPAID
RENEWALS WILL INCUR A \$45 LATE FEE**

NITROX ENDORSEMENT

Anyone wishing to add a Nitrox Endorsement will need to include a photocopy of their certification and pay a once only processing fee of \$10.

Please mail to: Records Officer - P.O. BOX 7592, Melbourne 8004 VIC.

CAVE DIVERS ASSOCIATION OF AUSTRALIA

(INCORPORATED IN SOUTH AUSTRALIA)

Membership Application Form

CDAA Number: _____

PLEASE ATTACH 2 PHOTOS

Applicants personal details:

Surname: _____

Given Names: _____

Address: _____

Mobile: _____

Phone: (h) (_____) _____ Date of Birth: _____ Sex: _____

(w) (_____) _____ Email: _____

In consideration of me being accepted as a members of the Cave Divers Association of Australia Inc., I agree to indemnify the Association and any other officer, employee, instructor, or guide of the Association, or any other person organizing, controlling, or assisting with a function, event, dive, expedition, training, testing, or administrative task or obligation, associated with the Association, from and against all claims, costs, demands and lawsuits that I have or may, have for personal injury or property loss, whenever occurring, against the Association or any of those people, arising out of or in relation to any function, event, dive, expedition, training, testing, or administrative task or obligation, associated with the Association or with the sport of Cave Diving.

I have read and understand the aims and objectives of the CDAA and am in support thereof. I hereby apply for membership.

Signed: _____

Please tick applicable boxes

☐ I enclose \$70 being CDAA Membership for 2002/2003

☐ I enclose \$140 being CDAA Membership for 2002-2004

☐ I enclose \$210 being CDAA Membership for 2002-2005

☐ I enclose \$45/yr being for backfees (max 5 yrs)

☐ I enclose my cheque / money order for \$ _____

☐ Please charge to my credit card ☐ BANKCARD ☐ VISA ☐ MASTERCARD

Credit Card No:

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Expiry Date: _____ Signature: _____

"Hey - You looking for a Dead Guy?"

By DEBORAH BUCKHALTER

The first words spoken by the diver rescued Saturday after being trapped six hours in one of Jackson County's underwater caves let his hero know he was aware of just how close a call he'd had. Hey, you looking for a dead guy?, Mark Orr asked Scott Hunsucker as the two made contact in the air pocket that saved Orr's life. Hunsucker, a trained rescue and recovery diver, who was called from his Pensacola home to help find Orr, was shocked to find his quarry alive. Of more than 480 divers who have been reported missing while exploring a cave, only four have been found alive. That's counting Orr. Orr became separated from his party late Saturday afternoon while diving with three companions in a cave approximately 100 yards from the Chipola River behind Riverside Cemetery.

With the air in his tank running out, he was able to locate an air pocket he'd found earlier in the dive. The pocket was in an area called a sump, or a dry cave beyond the wet cave he was initially lost in. Only between two and three minutes of air remained in his tank when he reached it and sat down on a pile of sand to breathe, his perch surrounded by carcasses of bats.

He was there six hours and was napping when Hunsucker and fellow diver Daniel Neives arrived, their lights waking him from his slumber. I was speechless, Hunsucker said about discovering Orr alive. I was expecting to be on a body recovery mission. He shouldn't be breathing. When he

asked me if I was looking for a dead guy, I had to say "Well, yeah". Hunsucker said he had four good reasons to believe he'd find a body rather than a living person on his search, and he minced no words when he talked to Orr after the crisis about the circumstances that led to his predicament. It's not the cave's fault; cave diving is a very safe activity if you play by the rules, Hunsucker said. We have five basic rules; they broke four. First of all, and most importantly, Orr wasn't a certified cave diver. That left him without the special training he needed, education that goes beyond what's needed for open water diving.

Secondly, they didn't use continuous guide lines - something like kite string - that would have run from the surface to the divers to help them negotiate their way back to safety in case they got separated, or if silt prevented them from seeing their way. That's something they would have known to do if they'd had the proper training, Hunsucker pointed out. Thirdly, they failed to dive with enough air in their tanks. You need to have enough air so that you use only one third on your descent and in the cave, a third coming out, and a third in reserve.

Typically, a cave diver will go in with an average of 240 cubic feet of air. I think they went in with single aluminum tanks that held something like 80 cubic feet, and they had used more than one third of their air when they were still in the cave, Hunsucker explained.

IMPORTANT REMINDER...

Please note that fees **WERE** due on July 1st.

Do not let your membership expire.

Fill out the form in the middle of this magazine
and mail TODAY!

NATIONAL DIRECTORS REPORT - September 2002

Another year has gone and it's election time again, that means that the Standards Directors and the Business Directors position is up for election. Next year will see Records, Site and National Director positions being offered but until then, barring lightning strikes or if I win Tattslo to you're stuck with me. Your votes for the new Standards Director are very important, so make them count, be sure that you are financial and that you fill the form out correctly and in time. As you will read in this issue Richard Price has been re-elected, as Business Director unopposed.

It's hard to believe that a small Association like ours can generate so much work. A normal day for me seems to commence with a stack of emails to answer. The most I have received (50) in a day consist of course inquiries, Standards questions, access arrangements, Landowner problems, Government department queries and member applications with an ever-increasing amount of queries from overseas divers. At least with email they can be answered fairly quickly or passed on to the relevant office holder.

I was fortunate recently to take over Richard Price's job looking after Tank Cave applications. No wonder Richard tears his hair out, forms filled out incorrectly, wrong dates, wrong credit card numbers, cheques not enclosed, indemnities not completed and numerous other mistakes. I only did the job for 3 weeks but can appreciate the problems Richard has, imagine if we had more than 54 applicants!

As most of you will know by now Terri Allen has taken over from Lorraine Hardman as Records Officer. The Association owes Lorraine an enormous thank you for the work she has put in on our behalf. Remember that's unpaid and quite often unappreciated. Paul and Lorraine have worked as a team to try and give the best service to you. Terri has already converted our DOS files into a more usable format and redesigned the Member and

Instructor cards. As everything is now on CD we can quickly access member's records and other files, a great advantage when away from the office, it's just a matter of loading into a laptop. Working with Debbie Williams, another long serving and tireless worker, all Instructor files are now updated and an Instructor can apply for a new card when their dates of membership overlap. Instructors should take a good look at the Instructor list, if you are not on it and think you should be, email Terri at Records and find out why you were left off. Paul Axton has retired as Standards Director, after stepping into the job, because of my coaxing, when we had a vacancy that couldn't be filled. Paul carried out his job with methodical dedication and for those that know Paul you know how committed to a job he is. Unfortunately Paul was unable to complete his term before the elections because of work commitments but if you email the Standards Director it will come to me for action until we fill the position. I would like to thank Paul for his dedication to the Association especially in helping so many overseas Associate members gain access.

In this issue of Guidelines there is an article about Hells Hole, I urge you all to read it. This is a story that few would have the "guts" to tell and a Another year has gone and it's election time again, that means that the Standards Directors and the Business Directors position is up for election. Next year will see Records, Site and National Director positions being offered but until then, barring lightning strikes or if I win Tattslo to you're stuck with me. Your votes for the new Standards Director are very important, so make them count, be sure that you are financial and that you fill the form out correctly and in time. As you will read in this issue Richard Price has been re-elected, as Business Director unopposed.

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Chris Edwards is pulling his hair out (he can't afford it!) because he doesn't have enough articles or photos of Australian cave sites. If you think your Gouldens dive was good then why not share it. Many of our members do not know about that secret tunnel on the right side or the fossilised donkey in the roof near the tree branch, so let's let them know!

The CDAA is 30 years old next year, we can all be proud of our Association. We have had our political problems, our Landowner turmoils and financial and Insurance woes, but we are still here, still united and getting stronger!

Keep looking, keep digging, explore after all if there's one Tank Cave there has to be another!

Regards,
Warrick McDonald.

CAVE DIVERS ASSOCIATION OF AUSTRALIA INCORPORATED

ABN 65 062 259 956

TRADING ACCOUNT FOR YEAR ENDED JUNE 30 2002

	2002	note	2001	2000	1999
SALES:					
CDAA Products	\$5,746.90	1	\$8,938.60	\$3,271.45	\$6,831.55
Instruction Materials	\$5,290.00		\$5,230.00	\$6,789.00	\$10,225.00
LESS COST OF SALES:					
OPENING STOCK:					
CDAA Products	\$7,573.41		\$10,749.85	\$5,230.46	\$1,687.84
Instruction Materials	\$417.15		\$1,308.54	\$57.58	\$315.00
Members Manuals	\$2,216.31		\$3,269.75	\$3,521.70	\$650.00
ADD PURCHASES:					
CDAA Products	\$2,041.13		\$2,408.86	\$7,779.94	\$8,738.58
Instruction Materials	\$1,686.75		\$628.88	\$2,267.06	\$2,574.73
Members Manuals	\$666.07		\$376.00	\$1,078.50	\$3,943.45
LESS CLOSING STOCK:					
CDAA Products	\$4,472.51		\$7,573.41	\$10,749.85	\$5,230.46
Instruction Materials	\$620.66		\$417.15	\$1,308.54	\$57.58
Members Manuals	\$2,411.65		\$2,216.31	\$3,269.75	\$3,521.70
TOTAL COST OF SALES:					
CDAA Products	\$5,142.03		\$5,585.30	\$2,260.55	\$5,195.96
Instruction Materials	\$1,483.24		\$1,520.27	\$1,016.10	\$2,832.15
Members Manuals	\$470.73		\$1,429.44	\$1,330.45	\$1,071.75
GROSS TRADING PROFIT (LOSS):					
CDAA Products	\$604.87		\$3,353.30	\$1,010.90	\$1,635.59
Instruction Materials	\$3,806.76		\$3,709.73	\$5,772.90	\$7,392.85
Members Manuals	(\$470.73)		(\$1,429.44)	(\$1,330.45)	(\$1,071.75)
LESS POSTAGE:					
CDAA Products	\$715.40		\$320.00	\$129.50	\$139.55
Instruction Materials	\$176.13		\$373.27	\$422.20	\$389.50
NET PROFIT (LOSS):					
CDAA Products	(\$110.53)		\$3,033.30	\$881.40	\$1,496.04
Instruction Materials	\$3,630.63		\$3,336.46	\$5,350.70	\$7,003.35
Members Manuals	(\$470.73)		(\$1,429.44)	(\$1,330.45)	(\$1,071.75)

CAVE DIVERS ASSOCIATION OF AUSTRALIA INCORPORATED

ABN 65 062 259 956

STATEMENT FOR INCOME & EXPENDITURE FOR YEAR ENDED JUNE 30 2002

	2002	note	2001	2000	1999
INCOME:					
CDAА Products net income	(\$110.53)		\$3,033.30	\$881.40	\$1,496.04
CDAА Instruction Materials net income	\$3,630.63		\$3,336.46	\$5,350.70	\$7,003.35
Membership fees	\$45,045.00	2	\$35,210.00	\$36,235.00	\$38,570.00
Instructor's membership fees	\$1,030.00		\$1,200.00	\$1,400.00	\$1,310.00
Late membership fees	\$1,400.00		\$660.00	\$4,100.00	\$3,670.00
Joining & rating upgrade fees	\$2,480.00	3	\$3,923.00	\$4,200.00	\$5,560.00
Nitrox endorsement fees	\$400.00		\$640.00	\$500.00	\$1,110.00
Guidelines advertising income	\$1,823.00		\$1,800.00	\$900.00	\$3,650.00
Tank Cave Fees	\$6,540.00		\$5,315.00	\$4,025.00	
CDAА Fundraising income	-		-	\$60.00	-
25 Anniversary receipts	-		-	-	\$1,560.00
Grants and donations received	-		-	\$70.00	\$1,000.00
Fines	-		-	\$45.00	\$48.00
Penetration course receipts	\$7,550.00		\$2,950.00	\$4,800.00	\$7,240.00
Interest income	\$4,350.00		\$4,127.76	\$2,377.43	\$975.77
TOTAL INCOME	\$74,138.10		\$62,195.52	\$64,944.53	\$73,193.16
EXPENSES:					
Administrative expenses	\$60.00		\$116.50	-	-
Accounting and audit fees	\$350.00		\$427.35	\$350.00	\$350.00
Aquatech commission expense	-		-	-	\$740.00
Advertising written off	-		-	\$1,100.00	-
Bad debts -	-		\$20.00	-	-
Bank fees	\$120.85		\$272.49	\$70.37	\$28.00
Computer expenses	\$88.00		\$278.00	\$225.95	\$335.00
Courier/Taxi fares	-		-	-	\$132.72
Credit facility fees	\$1,305.10		\$971.25	\$1,025.33	\$682.43
Govt. financial taxes	\$83.13		\$67.94	\$90.00	\$175.15
Depreciation expense	\$926.22		\$838.74	\$1,405.30	\$2,861.65
Discounts allowed	-		-	\$150.00	\$100.00
Insurance	\$15,251.28	4	\$14,335.22	\$9,406.75	\$9,325.00
Members Manuals	\$470.73		\$1,429.44	\$1,330.45	\$1,071.75
Postage	\$1,733.73		\$1,134.64	\$1,073.75	\$2,614.95
Printing and Stationery	\$224.10		\$834.08	\$1,128.56	\$1,053.47
Penetration course disbursements	\$7,050.00		\$2,950.00	\$4,800.00	\$7,200.00
Repairs and Maintenance	-		-	\$307.96	-
Research and mapping expenses	-		-	-	\$20.00
Site expenses	\$1,596.31		\$777.50	\$58.13	\$171.50
Sundry expenses	\$60.00		-	-	-
Tank Cave licence fee	\$8,250.00		\$8,250.00	\$7,500.00	
Telephones	\$594.15		\$471.50	\$1,433.83	\$3,001.21
Web Site expenses	\$5,396.00	5	\$4,495.14	-	-
CDAА Fundraising expenses	-		-	-	-
25 Anniversary expenses	-		-	-	\$2,402.12
Lamar Hires expenses	-		-	-	\$2,233.21
OzTek expenses	-		\$318.64	-	-
Guidelines Production	\$13,317.00	6	\$18,220.40	\$14,250.00	\$14,514.90
Guidelines postage	\$2,726.84		\$1,600.61	\$2,081.09	\$1,833.62
Annual general meeting expenses	\$199.55		-	-	\$1,446.05
AGM Directors expenses	\$635.91		\$478.17	\$918.79	\$940.14
Other meeting expenses	\$146.90		\$90.75	\$972.70	\$2,090.15
TOTAL EXPENSES	\$60,585.80		\$58,358.36	\$49,678.96	\$55,343.02
NET INCOME	\$13,552.30		\$3,837.16	\$15,265.57	\$17,850.14

CAVE DIVERS ASSOCIATION OF AUSTRALIA INCORPORATED

ABN 65 062 259 956

BALANCE SHEET AS AT JUNE 30 2002

	2002	note	2001	2000	1999
ASSETS					
Current Assets					
National Australia Bank cheque account	\$31,768.39		\$28,165.85	\$76,679.07	\$55,752.63
National Australia Bank Common Fund	\$93,375.70	7	\$59,964.00		
National Australia Bank term deposit	-	8	\$33,493.72	\$31,711.30	\$30,264.35
Debtors - advertising	\$1,300.00	9	\$1,800.00	\$900.00	\$1,550.00
Debtors - other	-		-	-	\$50.00
Withholding tax deducted	-		-	-	\$203.55
CDAА Products stock	\$4,472.51		\$7,573.41	\$10,749.85	\$5,230.46
Instruction Materials stock	\$620.66		\$417.15	\$1,308.54	\$57.58
Members Manuals stock	\$2,411.65		\$2,216.31	\$3,269.75	\$3,521.70
Total Current Assets	\$133,948.91		\$133,630.44	\$124,618.51	\$96,630.27
Non-Current Assets					
Property, Plant & Equipment	\$7,169.70		\$7,169.70	\$7,169.70	\$7,169.70
less accumulated depreciation	(\$6,974.00)		(\$6,584.00)	(\$6,044.00)	(\$5,390.00)
Office equipment	\$14,108.59	10	\$11,203.59	\$11,203.59	\$11,203.59
less accumulated depreciation	(\$11,728.41)		(\$11,192.19)	(\$10,893.45)	(\$10,142.15)
Total Non-Current Assets	\$2,575.88		\$597.10	\$1,435.84	\$2,841.14
TOTAL ASSETS	\$136,524.79		\$134,227.54	\$126,054.35	\$99,471.41
LIABILITIES					
Current Liabilities					
Memberships received one year in advance	\$13,810.00		\$14,945.00	\$12,900.00	\$12,695.00
Instructor fees received one year in advance	-		\$40.00	-	-
Overpayments	\$690.00		\$655.00	\$530.00	\$500.00
Penetration course deposits	\$700.00		\$700.00	\$400.00	\$400.00
Accrued expenses	\$2,286.90	11	\$11,981.95	\$7,475.92	\$1,073.55
Creditors	-		-	-	\$150.00
Tank Cave Fees Received in advance	\$300.00		-	\$4,180.00	
Total Current Liabilities	\$17,786.90		\$28,321.95	\$25,485.92	\$14,818.55
Non-Current Liabilities					
Memberships received two years in advance	\$3,820.00		\$3,800.00	\$3,450.00	\$3,050.00
Memberships received three years in advance	\$790.00		\$1,510.00	\$550.00	\$650.00
Memberships received four years in advance	\$400.00		\$440.00	\$300.00	\$50.00
Memberships received five years in advance	\$120.00		\$50.00	\$100.00	-
Memberships received six years in advance	\$50.00		\$50.00		
Memberships received seven years in advance	-		\$50.00		
Total Non-Current Liabilities	\$5,180.00		\$5,900.00	\$4,400.00	\$3,750.00
TOTAL LIABILITIES	\$22,966.90		\$34,221.95	\$29,885.92	\$18,568.55
EQUITY					
Members Equity as at 30/6/00	\$100,005.59		\$96,168.43		
add: 2000/01 Net Income	\$13,552.30		\$3,837.16		
CDAА Member's Total Equity	\$113,557.89		\$100,005.59	\$96,168.43	\$80,902.86
represented by:					
NET ASSETS	\$113,557.89		\$100,005.59	\$96,168.43	\$80,902.86

Notes to the Financial Statements Year Ending 30th June 2002

CAVE DIVERS ASSOCIATION OF AUSTRALIA INCORPORATED

1. The increase in product sales in 2002 was mainly due to receipts at Oztec.
2. Membership fees were increased from \$50 to \$70 per annum.
3. The breakdown for joining and rating upgrades are: joining: - \$1740; cave - \$740
4. Insurance expense increased from 2000 to 2001 due to the difficulty in securing insurance in the current environment.
5. Web site expenses are those incurred in maintaining the official CDAA web site.
6. Guidelines production costs are for four issues as is the case for previous years.
7. Surplus cash is transferred to an At Call common fund where a higher interest rate applies.
8. The Term Deposit was transferred into the Common Fund on maturity.
9. Major advertisers are paying an annual fee, \$1300 is receivable and anticipated collectable.
10. Office equipment has increased due to the purchase of a new computer for the database.
11. Accrued expenses are amounts relating to the 2002 financial year that were unpaid as 30th June. These expenses are reflected in the 2002 Income and Expenditure Statement and relate mainly to the June issue of Guidelines.

IMPORTANT NOTICE PLEASE READ

This a reminder to all members that correct access procedure must be followed at all times if we are to ensure access privileges continue.

In particular members are reminded that ALL divers must sign in at Lady Nelson prior to diving Englebrechts and that non-members and members who are not appropriately certified **MUST NOT** enter the site. This means that you cannot invite your non-diving friend or partner to enter the cave while you dive! Likewise please remember that you are not permitted to pass on the key to other divers but must sign it back in on completion of your dive.

The Directorate will be conducting spot checks of sites such as Englebrechts in the future and any member found to have breached access protocol will be suspended from that site immediately.

NOTICE FOR INSTRUCTORS

Procedure for ordering student packs:

1. Check you are insured & financial.
2. Send order & cheque or by phone/credit card.
3. Allow 14 days from when the order is received - so allow plenty of time.
4. Student kits cannot be returned.
5. Instructors must be active.
6. Please do not pass my number on to dive shops - you should deal with them not me.

• INSTRUCTOR RENEWALS •

Several instructors have not yet renewed their CDAA ratings. Instructors must lodge their current insurance details and renewal fee or packages will not be issued and certifications rejected.

INSTRUCTOR RENEWALS WERE DUE ON 31st DECEMBER 2001. AVOID DELAYS IN PROCESSING YOUR REQUESTS FOR MATERIALS BY SENDING YOUR RENEWAL ASAP.

Instructor Renewals - PO Box 290 North Adelaide 2006

Deb Williams - Instructor Materials Officer

CDAA INSTRUCTOR SUMMARY AS at 19/9/02

NAME A.C.T.	CONTACT No.s	STATE	Cavern	Sinkhole	Cave	Email
APPS, HEIKE	BH 02 6249 9170 AH 02 6291 0566	ACT	Yes	Yes	No	
N.S.W..						
GRILLS, PETER	Home 02 4950 6262 Mobile 0419 820 920	NSW.	Yes	Yes	Yes	peter_grills@hotmail.com
ROBERTSON, ANDREW	Home 02 9548 5987 Work 02 8868 8025 Mobile 0417 664 255	NSW.	Yes	Yes	No	buggs@tig.com.au
STURGEON, Stephen	Home 08 9385 6893 BH 08 9385 6893 Mobile: 0418 940 143	NSW.	Yes	Yes	Yes	steve@nitrox.com.au
WALTERS, DESMOND	BH 02 6041 1405 AH 02 6025 3506	NSW.	Yes	Yes	Yes	descend@albury.net.au
SOUTH AUSTRALIA						
MARRIOTT, MAX	AH 08 84473360 Mobile 0428 897 897	S.A.	Yes	Yes	Yes	dive69@senet.com.au
YARRA, GEORGE	BH 08 8447 5771 Mobile: 0418 847 889	S.A.	Yes	Yes	No	gumbyg@adam.com.au
WEST AUSTRALIA						
BUSH, GARY	BH 08 9281 9460 AH 08 9367 4701	W.A.	Yes	Yes	Yes	gary.bush@bigpond.com
HANSON, JOHN	BH 08 8348 4289 AH 08 8269 1083	W.A.	Yes	Yes	No	
VICTORIA						
AXTON, PAUL	BH 9579 2600 Mobile 0419 346 442	VIC.	Yes	Yes	Yes	lozhard@bigpond.com
BARCLAY, GARY	AH 03 5565 8793 Mobile 0407 052 074	VIC.	Yes	Yes	Yes	garinda@tpgi.com.au
BOWMAN, JANE	BH 03 9579 2600 Mobile 0407 566 455	VIC.	Yes	Yes	No	info@aboccean.com.au
BUGG, STANLEY	BH 03 9379 5767 AH 03 9379 8791	VIC.	Yes	Yes	Yes	

CDAA INSTRUCTOR SUMMARY AS at 19/9/02

NAME VICTORIA cont.	CONTACT No.s	STATE	Cavern	Sinkhole	Cave	Email
CLARIDGE, LINDA	Mobile 0409 234 851	VIC.	Yes	Yes	Yes	garinda@tpgi.com.au
CORNELL, BRIAN	Home 03 5985 2514	VIC.	Yes	Yes	Yes	cornell@alphalink.com.au
DALLA-ZUANNA, JOHN	Home 03 9434 1216 Work 03 9480 1316 Mobile 0407 887 060	VIC.	Yes	Yes	Yes	jdj@smart.net.au
EDWARDS, CHRIS	BH 03 9528 444 AH 03 95983538	VIC.	Yes	Yes	No	cedwards@teksupport.net.au
HEARD, Barry	BH 03 5626 1338 AH (03) 5627 6474 Mobile 0419 401 276	VIC.	Yes	Yes	Yes	
MCDONALD, WARRICK	Work 03 9640 0064 Mobile 0408 374 112	VIC.	Yes	Yes	Yes	info@aboccean.com.au
MONACO, Ruebens	BH 03 5985 9365 AH 03 5985 4193	VIC.	Yes	Yes	No	info@divemelbourne.com.au
WEALTHY, ROBERT	Mobile 0417 524 005 Home 03 5985 8338	VIC.	Yes	Yes	Yes	wealthy@pac.com.au

SITE IMPROVEMENTS...

Coming soon to a dive site near you! Tables just like the ones at Englebrechts will shortly be erected at most of the Sinkhole sites plus a couple of other locations. In case you've never been to Englebrechts they are a low flat 2 square metre platform just the right height for assembling and donning twins.

SHAFT DATES, 2002

The upcoming dates are...

September 7/8

October 5/6

November 9/10

December 7/8

For information on any Shaft or course dates contact Linda Claridge on 03 5565 8793 or email garinda@tpgi.com.au

TANK CAVE

~ DATES FOR 2002 ~

	DATE	SPECIAL WEEKEND
8	June 22 and 23	
9	July 6 and 7	
16	July 20 and 21	
10	Aug. 3, 4, 5	NSW Bank Holiday
**	Aug. 17 and 18	Mapping Weekend
11	Aug. 30 - Sept. 1	
12	Sept. 14 and 15	
13	Sept. 28 and 29	
14	Oct. 5, 6, 7	SA Labour Day
15	Oct. 20 and 21	
16	Nov. 2 to 5	Melbourne Cup weekend
17	Nov. 16 and 17	
18	Dec. 1 and 2	
19	Dec. 15 and 16	
20	Dec. 21 to 24	Christmas

Florida Cave Diving – October 25th – 20th 2002

Join us on this Cave diving package. Fly to Los Angeles and on to Jacksonville via a hub. 14 nights, usually 20 dives. We have done this trip for the last two years and have it all worked out. We stay in Lake City and use an RV to travel around. Fantastic dives such as the Ginnie Springs system, Little River, Peacock, Manatee and Cow.

Approx. \$4,000.00 per diver. For more information call Warrick McDonald or Jane Bowman 03 95792600 or emailabocean@dingley.net

UP COMING COURSES

CAVERN/SINKHOLE AND CAVE
COURSES, PERTH, W.A.
RUNNING PART-TIME EVERY APRIL AND OCTOBER

Please call Gary for further details on
Phone 0402 339 652 or email gary.bush@bigpond.com

CAVERN/SINKHOLE COURSE, MOUNT GAMBIER.

NOVEMBER 18 - DEC. 1

Contact Jane Bowman 03 9579 2600

CAVE COURSE, MOUNT GAMBIER.

NOVEMBER 25 - DEC. 1

Contact Warrick McDonald 03 9579 2600, 0408 374 112
or email abocean@dingley.net

CAVERN/SINKHOLE COURSE, MOUNT GAMBIER.

OCT. 26 - OCT. 29 Inclusive. • DEC. 14 - DEC 17 Inclusive.

Contact Gary or Linda 03 5565 8793 or email garinda@tpgi.com.au

CAVE COURSE, MOUNT GAMBIER.

OCT. 26 - 29 Inclusive. • NOV. 29 - DEC. 1 Inclusive.

Contact Gary or Linda 03 5565 8793 or email garinda@tpgi.com.au

CDAА SITE ACCESS

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

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

SITE	LEVEL	OWNER	ACCESS DETAILS
MOUNT GAMBIER - SOUTH AUSTRALIA			
Ewens Ponds	Nil	DEAH P.O. Box 1046 Mt Gambier 5290 (08) 8735 1177	Groups of 6 or more, phone/mail to Dept. for Environment & Heritage (DEAH) Smaller groups, no need.
Horse & Cart Tea Tree	CN CN	Peter Cunningham PO Box 2168, Mt Gambier 5290	By phone or mail, 1 week prior. Ph: (08) 8738 4003.
Little 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	DEAH P.O. Box 1046 Mt Gambier 5290 Ph: (08) 8735 1177	General Diving: Divers to contact DEAH and notify of date and site to be dived. Divers must have the correct CDAА diving endorsement for the site and carry current financial CDAА membership card. The diver must have signed an indemnity with DENR before access is permitted. Training: The Instructor is to notify DEAH of the date the sites are needed and to forward signed indemnities from each student and their temporary card number/ membership number.
Ela Elap One Tree	S S	Mr. Peter Norman Private Bag 67, Mt Gambier 5290	Visit the house before diving. If no one home - no dive!
Swim Through	C	Valerie Earl PO Allendale 5291	Currently CLOSED pending new access arrangements.
Piccaninnie Ponds	S	DEAH P.O. Box 1046, Mt Gambier 5290	Permit holders by phone. Be aware of delicate vegetation. Indemnity form to be completed. Ph: (08) 8735 1177 Faxed copies of cards no longer accepted when booking.
Hells Hole Pines Mud Hole	S P/C C	ForestrySA PO Box 162 Mt Gambier 5290 Ph: (08) 8724 2876 8.00am - 4.30pm weekdays Fax: (03) 8724 2885	Contact ForestrySA by mail, phone, fax or email to arrange permit. Collect permit from Regional Office or Carter-Holt Harvey Mill gatehouse, Jubilee Hwy., Mount Gambier. No diving on total fire ban days. Hells Hole key from Lady Nelson. Forest Work Bans may be applied by ForestrySA if forest fire danger is expected to reach extreme. Such bans also exclude the public from entering the forest. If in doubt, please check with Karren Laudenschach, although signs are generally erected at diving sites on such days to indicate such bans. Permits required for compressors during fire danger season.
Email: forestrysa@saugov.sa.gov.au			
Kilby's	S	Landowner leased to S.A. Police	Restricted access conditions apply - refer Guidelines Issue 54. Twin tanks, maximum of 40 metres depth. Write to: Gerret Springer, 30 Lorikeet Street, Mt Gambier SA 5290. Email: rolukage@ozemail.com.au, 4 to 6 weeks prior to wanting to dive. Please enclose stamped self-addressed envelope (Do not contact landowner). Access date now the first weekend of every month. No animals permitted. No mid-week diving.
Shaft	S	Generally open one weekend a month L. Claridge P.O. Box 290 North Adelaide 5006 Ph: (03) 5565 8793 A.H.	For access dates contact Linda Claridge. Also, see Special Access Bulletin in Guidelines issue 69. Nitrox as a diving mix is not allowed in the shaft. Deco mixes ATTACHED to a shot line are permissible. Divers applying to dive in the Shaft must have documented experience of a least 5 twin-tank dives. Sept 8/9, Oct 7, Nov 10/11, Dec 1/2. Email: garinda@tpgi.com.au
Ten Eighty Bullock Hole Black Hole	S S S	Mr. Colin Traeger PO Box 2168 Mt Gambier 5290 (08) 8726 6215	Sundays only Mail Booking Form to Colin Traeger 2-6 weeks prior, stating names/qual. of all divers, and time slot. Please include stamped self addressed envelope. Closed October to November for shearing.

CDAА SITE ACCESS

SITE	LEVEL	OWNER	ACCESS DETAILS
MOUNT GAMBIER - SOUTH AUSTRALIA (continued)			
Max's Hole	C		Currently pending access arrangements with new owner.
Hann's cave	P	P & A Lasslett	Groups of four divers only apply in writing to Site Director. Limited groups will be allowed access over the summer months. The site is very delicate and therefore only limited access is available. Divers applying will be notified as to further access details. Please include a stamped self addressed envelope.
Engelbrechts - East - West	C C P	Mt Gambier Council Lessee Ph: (08) 8723 2299	Obtain key from Mt Gambier Tourist Information Centre. Access agreement must be signed prior to diving. 2 divers must sign out keys, all divers must sign in advising which groups they are diving with. NOTE: Special conditions apply during March and April... See notice this issue. Please book public holiday dives with lessee.
Three Sisters	P	Millicent Council	Contact Records Officer. Access available for experienced Penetration divers only. Low profile or side mounted independent air systems required. Access agreement must be signed prior to diving. Please allow 4 weeks for indemnities to be processed.
Idlebiddy (5L250)	P	ForestrySA PO Box 162	5L250 open every Saturday. 5L290 open every weekend. Max. 4 divers per dive per day, 1 dive per day for each site. Only Penetration divers.
Nettle-Bed (5L290)	P	Mt Gambier 5290	Bookings from Forestry Office - key from Lady Nelson. Contact ForestrySA by mail, email or fax to arrange permit. Collect permit from Regional Office or Carter-Holt Harvey Mill gatehouse, Jubilee Hwy., Mt. Gambier. No diving on total fire ban days. Forest Work Bans may be applied by ForestrySA if forest fire danger is expected to reach extreme. Such bans also exclude the public from entering the forest. If in doubt, please check with Forestry Ranger Karren Laudenschach or Forestry Office, although signs are generally erected at diving sites on such days to indicate such bans. Permits required for compressors during fire danger season. Email: forestry.recreation@saugov.sa.gov.au
McKay's Shaft	S		Contact South East representative Phil Argy at Mt. Gambier access and indemnities.
Tank Cave	P	Mr. DYCEP	Access Manager: John Vanderleest Email: John.Vanderleest@admiral.com.au
Baker's Cave	C		Please write to the Site Access Director to dive in Baker's Cave. Include stamped self-addressed envelope. Climbing equipment required.
NULLARBOR - WESTERN AUSTRALIA			
Cocklebiddy	C		Apply in writing for permission to dive at least 4 weeks in advance of trip to: District Manager, C.A.L.M., PO Box 234, Esperance, W.A. 6450.
Murra El Elevyn	P/C		Phone: (08) 9071 3733 Fax: (08) 9071 3657
Tommy Grahams	C		
Weebubbie	S/C		Apply to Assistant Project Officer, South East Region Team, Land Administration Services, The Department of Land Administration. Phone (08) 9273 7215 Fax (08) 9273 7414 Email: kym_squires@dola.wa.gov.au
N.S.W. - WELLINGTON CAVES			
Limekiln (McCavity)	P/C		Both Penetration and Cave Level are being accepted for this cave depending on it's water level at the time. The cave has a restriction at the entrance which is underwater making it a Penetration Dive. During drought, the water level drops to form a small lake below the restriction allowing experienced Cave Divers access to this delicate cave.
Water (Anticline)	C		Affected by high CO ₂ levels during Summer/Autumn. Access arrangements are co-ordinated with an already commissioned research group. Contact Greg Ryan (02) 9743 4157 h, gregr@cs.usyd.edu.au
Rum Jungle Lake	S		Unrestricted access currently exists - Please refer advice in Guidelines No. 68 or check CDAА website.
Burrinjuck	S/C/P		This is a tri rated site. Please see details in issue No. 73. There are no specific access arrangements.

TRADING POST

FOR SALE

PEE VALVES – \$65.00
with non-kink flexible tubing– \$65.00

JUMP REELS – \$65.00

Please call (03) 5565 8793 or
Email: garinda@tpgi.com.au

FOR SALE

SUUNTO STINGER WATCH / COMPUTER

Titanium Case Model - Air/Nitrox with Gauge Mode and Alarms.

RRP \$1995 ~ Sell for \$800
In Excellent Condition.

Tony Davis - 0418 370 941
CDAA 1187

CDA A PRODUCTS ORDER FORM

**Please make payable to:
CDAA, P.O. BOX 290
NORTH ADELAIDE, SA 5006**

	QTY / COL/SIZE	ITEM	UNIT PRICE	TOTAL
BOOKS		Cave Diving Communications. A manual from NSS - CDS dealing exclusively with all underwater communications used in cave diving. Including touch, torch and line signals, and use of line arrows and jump reels. A must for all cave divers bookshelves.	\$17.50	
		Cave Diving - A Blueprint for Survival. A book by the world-renowned cave diver, the late <i>Sheck Exley</i> , this is a case study of a number of accidents that have occurred in the USA and how to avoid them.	\$15.00	
		Basic Underwater Cave Surveying. The standard publication for anyone remotely interested in research and survey techniques used in water filled caves.	\$30.00	
		CDAA Occasional Paper No. 2, From National Conference 1981. Includes topics such as Fossil Cave, Belay Techniques and Cocklebliddy 1979.	\$2.00	
		DAN Emergency Handbook. Revised 1995 edition by <i>Lippmann and Bugg</i> . Printed on waterproof paper this essential first aid manual should be part of every cave divers' kit.	\$17.00	
		NSS Cave Diving Manual. The standard reference manual in cave diving covering just about every conceivable topic. New Edition.	\$55.00	
		The Darkness Beckons. By <i>Martyn Farr</i> . The history and development of cave diving.	\$75.00	
		An Introduction to Technical Diving. By <i>Rob Palmer</i> .	\$45.00	
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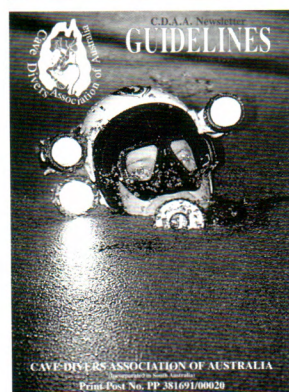
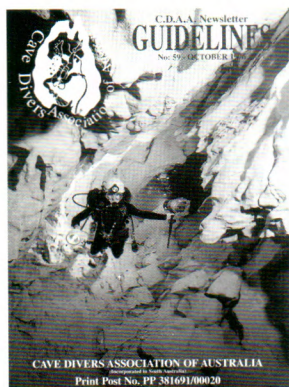
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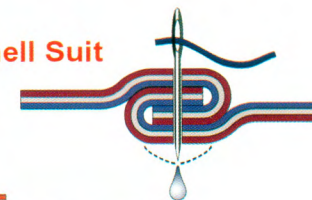
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