

# CAVE DIVERS ASSOCIATION OF AUSTRALIA

(Incorporated in South Australia)

Print Post No. PP 381691/00020



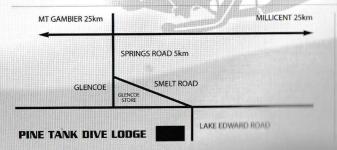
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## ~ GUIDELINES GALLERY ~

Some recent photo contributions to Guidelines...
We have a number of spectacular images on file - here's just a few!









## **EDITOR'S CORNER**

Publications and Records Director Report. (per National Director)

"This issue of Guidelines calls for Nominations for the positions of Standards Director and Business Director. George Yarra as Standards Director has served the Association well during the last two years. George was faced with a number of issues relating to Courses and Regulations and in attempting to bring about changes that were long overdue, incurred the wrath of some members who not only attacked what he wanted to do but attacked his efforts in getting Tri-Mix access to the Shaft. As you should all know George was cleared of any wrong doing and went so far as to apologise to the members in Guidelines if his actions (for our benefit mind) caused any undue stress to the membership. It takes a real man to swallow this sort of personal attack and still go on serving the membership, many have quit in similar circumstances. If George stands again we should welcome his experience and dedication to the CDAA, if not we should wish George the best of luck in his future projects. Heike Apps as the Business Director has forged a relationship with the other Directors that will be missed should she not stand again for election. Heike has worked very closely with our Treasurer, Tammy Beattie and with Kevin the previous Auditor to produce fantastic results. Quotations such as "Outstanding, clear, precise, orderly, timely" come to mind and it wasn't me that said it in relation to Heike, but I sure agree. When you couple this with the fact that Heike also was in charge of Instructor Materials, sending out packages to Instructors, who sometimes leave everything to the last minute, it has been an amazing effort.

This issue also gives notice of the AGM and as it's a busy weekend with Tank Cave access (ladies special access day) and the Penetration Course I suggest if you are attending you book your accommodation early.

This editorial is a fill in while Terri is away in Rome, having just returned from Finland and the USA it's no wonder she was so snowed under I had to do this article and therefore will take all blame, for any mistakes in this issue. I haven't done this since the early 90's when I was Editor until I conned Vic Kostiuk into the job (where is he now?) so forgive me if there's some, oops! So that once again I can be accused of "lobbying" I am delighted to tell you that Terri has just been made an Associate Professor so no longer Doctor Terri Allen it's now the "Prof". What looks like sweet sojourns overseas for her, are actually working presentations on Diabetes Research, that raises money for her team at the Baker Institute and benefits all afflicted with the terrible disease."

Regards, Warrick McDonald

## GUIDELINES DEADLINES

If you would like to contribute to Guidelines in 2005, you should note the following deadlines for submission of materials:

**Deadlines for publication:** 20th August for September 2006

20th Nov. for December. 2006

## SPECIAL NOTE:

New tripod is available at the Pine Tank Lodge for use at Iddlebiddy etc.

> Cheers Grant Pearce, Pine Tank Lodge.

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#### Front cover:

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Photographed by Agnes Milowka.

Photographed at Piccaninee Ponds

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## CAVE DIVERS ASSOCIATION OF AUSTRALIA

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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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#### CDAA INSLIBANCE

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# Acceptable Risk

Steve Trewayas

Most divers are aware of but would seldom consciously consider, the principle of acceptable risk but this concept is at the core of all safe diving. In modern technical diving this concept can be expanded upon to form the basis of advanced dive planning.

Consider the realm of the traditional single tank ocean diver. Diving as a buddy pair in the ocean is a common occurrence. If one diver's first stage regulator fails the diver is in serious trouble. Buddies in this situation can afford one catastrophic failure but not two. If the second diver's first stage also fails then both divers are in serious trouble. So in effect this is an acceptable risk of one failure.

This is the same failure rate that a solo cave diver chooses to accept. Two first stage regulator failures, one on each of his twin cylinders and the diver will no longer be with us. We all know divers who choose to accept this slim failure rate of one. Knowingly (or possibly not) by default they choose to consider this an "acceptable risk"

By simply utilizing a buddy team we can increase the acceptable number of failures to three. For example: My left post, my right post and my buddy's left post can fail and we still may be able to safely exit the cave on the one remaining functioning regulator. An acceptable risk of three failures and in effect, tripling our chances of surviving a cave dive compared to that of a solo diver. Therefore, by default we as cave divers choose a standardized acceptable risk rate of three. In my opinion this should be the minimum ratio a cave diver should consider safe whilst undertaking any basic dive.

However, buddy breathing off of one regulator is not efficient and not something I would want to factor in to my acceptable risk category in most caves I choose to dive. To simply increase the acceptable risk I would add a stage cylinder each. i.e. Failures occur on my back gas left post, right post, stage cylinder regulator, buddy's stage cylinder and buddy's left post. You now have an "acceptable risk" of five failures before you are down to that one regulator again.

#### In principle...

A diver needs to establish how many failures are

acceptable on any given dive and balance the positives and negative aspects. They then need to decide whether or not to undertake the dive simply by asking - Is this dive an "acceptable risk?" How many failures do they consider they can safely

allow? How many failures are realistically likely to occur?

When does the acceptable risk outweigh the practicality of conducting the dive? A dive team of five, each with two stages to dive Allendale cave is exceptionally safe.... but is it practical or realistic? Conduct a "what if" pre-dive analysis as illustrated in this article above to determine the maximum number of failures that may occur before a diver is endangered.

#### Diver Propulsion Vehicles...

As dives become deeper & longer, Diver Propulsion Vehicles (DPV's) come into their own. While DPV's are extremly useful tools, they are also very dangerous if not used carefully. The old rule of thumb for DPV diving was to only use 1/6th of your gas to penetrate on a scooter. This is now considered anachronistic. Modern scooter diving is now about setting an acceptable number of failures.

Utilising a 33 ah DPV (120 minute battery time) will enable you to get 60 mins into a cave. So at a speed of 50 metres per minute a diver can be 3km into a cave on one DPV and utilise very little gas. Let's assume we have a buddy team of two, with one scooter each. If one DPV fails your buddy can tow you out. If two fail, can you practically swim that distance? Maybe ... maybe not, depends on depth, amount of gas available, decompression obligations, any staged cylinders, presence of flow ... etc. So again, we are back to an acceptable risk of one. In this example, what if you include enough gas to swim out in my plan? So now we can have two scooters fail and my left post go. Three failures, is

continued page 8.

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this an "acceptable risk?" Add a suitable tow scooter to my gas plan. I now have a four failure acceptable risk.

#### Summary...

Dive sites are varied. Depth, flow, temperature and distance all play significant parts in determining what represents an acceptable risk. What is an acceptable number of failures at the bottom of The Shaft is different to what is acceptable on a casual weekend dive in One Tree sinkhole. Each dive should be individually evaluated and an acceptable risk agreed upon by all members of the dive team. And if you think "Three failures? That would never happen" ... Well let me tell you it does... on each and every penetration course.



# The Humble O-Ring

John Vanderlees

Like many cave divers, I am into gadgets, particularly gadgets that relate to diving. When I walk into a dive shop, any new item on the shelf immediately grabs my attention and I want it. Do I need it – probably not – but I do want it

As a consequence of this obsession, my home is littered with many wonderful treasures (junk according to my wife). All have a purpose for my diving and all are needed, even if I don't yet know what it is.

But of all the gadgets that I have, all the electronics and all the money tied up in with it, there is one item that never ceases to amaze me. It the cheapest and simplest of all the items and without it, nearly everything else is useless. I am of course talking about the humble o-ring.

I once considered the o-ring nothing more than a piece of rubber not worthy of a second thought, but now I look at an o-ring and think that of all inventions ever made, this would come close to the top.

So let's look at some facts about this simple item.

The o-ring was only born in 1936, invented by a Danish

borne American, Niels Christensen. During WWII, the American Government saw the significant advantage this small device would provide them in being able to easily deal with pressure and something that was quick and easy to install and replace. Before long, it was heavily integrated into its military machine.

#### But what made this device so good?

The real name for an o-ring is a Toroidal Sealing Ring (ISO Standards). It is torus shaped (that's doughnut shaped – not bull shaped), compressible and elastic. The o-ring is generally housed in some sort of grove, known as the o-ring gland.

To the casual observer, it appears that o-ring seals by simply compressing the o-ring into a space to form a physical barrier to stop the fluid or gas passing. Whilst this is basically right, there is quite a lot of science behind this simple concept.

Seal integrity is a combination of size, wall thickness, softness of the material, chemical makeup, pressure applied to

continued next page



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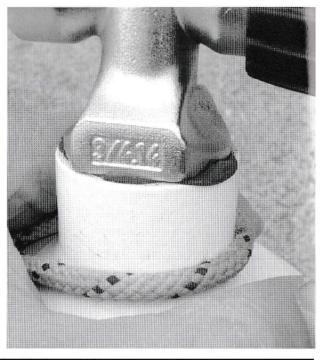
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the seal, the sealing surface and gland design. The design of both the o-ring and gland varies tremendously, with design characteristics changing dramatically depending on the temperature, pressure, gas composition, liquid composition and movement. Then of course comes the question of whether the seal is static, reciprocating, oscillating, rotary, seat, pneumatic, vacuum, cushion, cushion or rod wiper. Confused yet? I am. But put simply, there are three basic things that makes the oring work. It's chemical composition, hardness and the design of the gland.

First is the chemical composition. O-rings are made from many many different compounds including rubber, silicone, polyurethane, ethylene-propylene, fluorocarbon, nitrile, chloroprene, perfluoroelastomer and even soft metals. The reason for the different chemical makeup is to cater for the different pressures, temperatures, chemicals, gases, movement or combination of the above.

Just image the conversation of the NASA engineer asked to design o-ring for the





space shuttle booster rockets. "Ah Jack, we need an o-ring for these new rocket boosters. It will need to handle 50,000 psi, work in a temperature range of 0-1500 Celsius, needs to be really really light because for every extra kilo of non – fuel weight to lift we need an extra 5 kg of fuel, it must be resistant to this "x" chemicals, able to handle high pressure oxygen and um what have I missed? Never mind if there's anything we missed, I'm sure we'll find out soon enough."

Fortunately for us scuba divers, getting the right chemical composition is simple. We can use nitril o-rings (no, they are not rubber) or use viton o-rings (Copolymer of vinylidene fluoride and hexafluoropropylene). Actually VITON® is a Dupont company trade name. Other brand trade names include: FLUOREL®, TECHNOFLON®, DAI-EL®.

The next item to consider is the hardness of the o-ring. The softer the o-ring, the easier it is to compress and the wider the sealing face. But if its too soft, then pressure of a gas or fluid trying to push through might cause the seal to extrude or deform, allowing the gas or liquid to leak past the seal – so softer does not mean better. When purchas-

ing o-rings, you need be aware of the o-ring hardness, measured in duroms or duros (depending on who you ask. For diving, we generally ask for orings in about 40 - 75 duro range.

Once you have the right chemical composition and the right duro o-ring, you then need to make sure that you have the right design gland. A gland design will change depending on whether you have a static or dynamic seal, reciprocating, rotary, oscillating, etc

Now go and grab your tank and regulator and look carefully at how the o-rings are captured (the gland). I really important thing to remember is that the size and type of o-ring and gland used are a set. You cannot place any o-ring. It might be the right diameter, wall thickness and duron to match the

gland.

Now see if you can find the difference between a static and dynamic gland design, say between the o-ring in your tank valve and that in the swivel of your high pressure gauge.

Finally, while you are checking out your tank valve, have a look at the condition of the o-ring. Is it cracked? We've all seen cracked and worn o-rings, but most people think this is because of age and heat. But, it may due to o-ring decompression. Like our bodies, o-rings absorb gas when under pressure. When you purge your regulator, you cause explosive decompression of the o-rings. Tiny microbubbles form, which eventually tear or crack the o-ring.

So next time you remove a worn o-ring from your tank valve, think of those chemists and mechanical engineers who have put in a lifetime of work into its design, think of the billon dollars that has gone into its development, think that it took a world war to take it from a simple little invention into a integral part of all mechanics and THEN throw in it in the dirt.

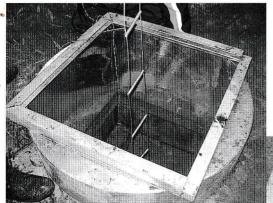


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## CAVE DIVERS ASSOCIATION OF AUSTRALIA

# NOTICE OF 2006 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 Saturday October 7, 2006 at the Comfort Inn Silver Birch conference room, Mt Gambier, SA. The Annual General Meeting will commence at 7:00pm and will conclude no later than 8:00pm.

#### This notice also serves to call for:

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

The Returning Officer must receive nominations for the Directorate positions no later than the close of business Friday August 17, 2006.

Mail to: Returning Officer PO Box 7592, ST KILDA RD VIC 8004

The Business Director must receive member motions and proposals for amendments to the Constitution no later than close of business Friday August 17, 2006. Items received after this date will not be accepted nor will any extensions to this date be granted.

Mail to: Business Director PO BOX 292, CALWELL ACT 2905

Members intending to nominate for an Office Bearer position must be eligible members of the Association as defined in the Constitution. Nominations should be accompanied by a précis 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 close for the election (if required) is Monday October 2.

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, paid up member of the Association and you must only use the ballot papers to be provided in the next issue of Guidelines (#97) or by special mail out. The ballot papers must reach the Returning Officer (Geoff Chambers #3484) no later than close of business, Monday October 2, 2006. Detailed voting information will be provided with the ballot papers. Questions may be directed to the Returning Officer c/o busdir@cavedivers.com.au.

Heike Apps, Business Director.



Widely acclaimed as one of the world's most dynamic diving events, the fifth AustralAsian Diving Technologies Conference and Exhibition - OZTeK'07 - will take place over the week-end of the 17th - 18th March 2007, at Australian Technology Park, in Sydney.

A stand-alone event devoted to the excitement and adventure inherent in diving - one that has continued to receive high praise since its inception in 1999 - OZTeK'07 will again feature, as speakers and presenters, one of the world's largest gatherings of internationallyrenowned authorities in their respective fields of diving expertise.

Having already established its credentials as an internationally significant event on the diving industry calendar, OZTeK'07 is focussed on the adventures that new technology makes possible, from digital photography through to extreme exploration.

Encompassing recreational, technical, commercial, military and scientific diving applications in a format whose topics include: Cave and wreck diving, developments in rebreather technology, equipment selection and configuration, deep diving considerations, commercial diving practices, decompression procedures, hyperbaric medicine, training programmes, military diving applications, searchand-rescue techniques, marine archaeology, underwater photography, diver safety and more, OZTeK'07 will again tap into the very core of exciting diving experiences; an international extravaganza that no diver can afford to miss.

Complemented by a full-scale exhibition featuring all of the latest developments from every sphere of diving, together with displays, breakout workshops, film and video presentations, OZTeK'07 is an event aimed at ALL divers, (regardless of their experience level) whose thirst for knowledge is matched only by their sense of adventure.

A two-day spectacular that probes beyond the usual diving limits, full details of the exciting OZTeK'07 programme - together with travel and accommodation information - will appear on the website at, www.diveoztek.com.au during the coming months.

Organisations with an interest in exhibiting at OZTeK'07. in March 2007 - or individuals who might be interested in presenting papers at the conference - are invited to contact the Convenors at:

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## WELLINGTON ANTICLINE DIG SET FOR JULY 29th

The next Wellington Anticline dig is set for the 29th of July. Usual barbeques will take place. Be quick if you want accomodation in the cabins. There is always camping.

After robust discussions with the Advisory Group and Council at Wellington Caves we have secured in-principle funding to develop Anticline Cave. We are dependent on community/speleo help to get the project done within budget but I think we can get our fence, a set of tourist stairs and tree plantings.

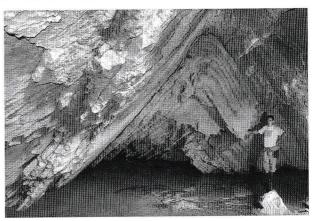
The next stage of the project is more soil removal from the entrance. Bucket brigade wanted!

The fence design has changed to accomodate a new design of stairs so we need another quote for a fence. A well known speleologist has made a generous offer of an inexpensive fence and hopefully this will go ahead. Assuming this happens before July 29th we need anyone with a truck that can help transport segments of fence. If you have such a truck and time please send me an email.

An added incentive is that a small chamber underneath Cathedral Cave has been unearthed by Bruce and Armstrong (historian/ archaeologist/ cave-scientists/ CaveGuides). The roof of a passage is visible with a signature "Sibbald" in cursive script by one of the early guides at Wellington. A rabbit sized tunnel can be just seen to drop into a lower level space. In the past many tons of earth were brought into the cave to make the big chamber suitable for community dances and apparently covered some side passages.

Anyway we need to dig this out and see what is there!







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# ~JUNE 2006 - PAGE 19

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## **CAVE DIVERS ASSOCIATION OF AUSTRALIA**

(INCORPORATED IN SOUTH AUSTRALIA)

## **Membership Application Form**

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## NATIONAL DIRECTORS REPORT

June 2006

Guidelines is the only way I can communicate with all of you, as the email list is very small. I have held back in what I have said previously because this magazine is read by others and the last thing I want to do is leave a bad or false impression of the inner workings of the CDAA. But, it is time to come out into the open with some serious concerns I have for the future of this Association.

Want the good news first? Well that's easy – Access to Barnoolut in July with Tri-mix and Nitrox approved, New shed at Tank Cave, New roadworks at Tank Cave, More Tank cave divers than ever before, New landing at Little Blue, New landing at Pic's, better entry steps at Pines, changed access at Engelbrechts to keep the neighbours happy, More Penetration Course candidates than we have seen for years, more advertisers in Guidelines, financial security with investments paying for the running of the Association, Tri-mix in the Shaft open to all qualified Tri-mix divers, 100 sites to be posted on the web before the end of the year, new maps of Tank Cave as well, More Instructors than ever, Upgrades of Certificates and course paperwork and finally the renewal of the Tank Cave Lease. The new Constitution is still being worked on by our committee and it's nearing completion, hopefully this "tidy up" will remove a few of our interpretation problems.

It is your vote that counts! As a member of the CDAA your vote is as important as anybody else's. So why don't you vote? There are factions within the CDAA with their own agendas, that's no surprise, but when people stand for a position, just to get their own agendas through, and therefore ignore what is good for the Association, my blood boils. Hence, if you have been on the receiving end of one of my scathing emails, then perhaps you can understand that there is a certain amount of frustration bottled up inside me. The one thing I have been able to achieve in all the years as a Director, is that I take nothing personally, so what makes me angry today is gone tomorrow. The fact that I probably don't even remember the discussion when I meet you face to face doesn't mean I'm ignoring you, or the subject, it's just passed me by, so bring it up with me if you still have a grievance, that's your right as a member, to be heard!

On going projects at the moment concern mapping in sites, Tank Cave, Pines, Trimix-Rebreather papers presented by the committee, new Standards for Courses and a deep mapping project is in plan. Changes are being made to the Penetration Course as an ongoing concern and the Cavern/Sinkhole Course is still not complete after much debate (see below). The Mapping and Research section is meeting to thrash out some concerns that will be placed into Regulations for future projects to protect and guide the Mappers and the Association. My congratulations go to these hard working volunteers who cop criticism on nearly everything they do; although accolades are given they are always quieter. Barnoolut is due to be

opened early in July and Grant and Hugh have now finished the steps etc. and are putting in the water entry point. Access agreements, Indemnities etc will all be available shortly so that we start diving. This has taken a long time and it is in the interest of the Landowner and therefore continued access for us, to follow the conditions to the letter. Outstanding projects such as access to some of our listed sites have still not been finalised and there should be a report available on this and the gear up tables placement which is still outstanding, elsewhere in this issue.

I'm sure you have all heard the story about the dog and who wags the tail. When was the last time your employer/whoever came to you and said I want you to do more, for example "...instead of emptving the rubbish bin I want you to make sure it's clean as well. This is for everyone's safety." What would you say "Yes, I can see the advantage in that." Or would you procrastinate and say "It will take me too long" or "Why do more, it's not my job and history shows that we haven't really had a problem before so why worry about it now?" Whether something is changed for reactive reasons or pro active reasons is not the argument, what should be considered is what is safe, what can help prevent accidents/incidents and what steps are we taking to document the procedure so that we can prove that it's been done and that the workers know how to do it. Now this is perhaps a long convoluted way to get to the point which is why, when it is obvious that the CDAA has fallen behind in its content, methods, theory and level of training, we have not changed to keep pace with other training agencies. If I read or hear once more by Instructors that the CDAA "...offers the highest quality and leads the world in Cave training" I will puke! 20 or maybe 15 years ago this could be said to be true, but when you consider that our Standards for training were last changed (apart from a few Regulation changes) in 1997 and there were inconsistencies and implementation problems then, surely it is time for a change. A committee was formed, Instructors were asked to sit (argument existed on who was asked etc.etc) anyway a draft document was produced and immediately there was an uproar from the Instructor body, are these the workers? Or are they the tail, after all isn't the CDAA the dogs body? No Instructor is forced to teach no member is made to be an Instructor, so who is wagging? The tail or the body? If Instructors do not want changes (and the meeting called by Instructors, only approved of a few minor changes) does this mean that it's right? At what point do the members have a say (you may argue that the members may not know what is correct and what should be taught) but I think sometimes we underestimate the intelligence of the members of this Association and the training they have received from other agencies at all levels. It is time in my opinion that the members spoke up and were counted, demand that you are taught the most up to date system, that the content of the course is structured so that the workbook actually relates to what you are being taught and is up to date. Isn't it time YOU had a say? People don't like change! Therefore Instructors don't like change? But ask yourself the question...is a change resulting in courses that reflect modern methods of training and the latest in theory that reflects what the rest of the world is learning, wrong? Or does it all have to do with the dollar? Because our Instructors follow a set of course procedures that are not clear and open to interpretation, this means that courses vary. How do we stand for quality control and liability in this case? If interpretation is left open, if some Instructors do less than others, if the dollar features so strongly that cost to the Instructor and therefore profit is the controlling motive then...the tail is wagging the dog! Demand, change, demand parity or better when compared to other training agencies, demand quality of education!

Think I'm too tough, well just imagine how tough it will be in court if an accident occurs and we get served! I've warned you, some might not like it, you know that we can get by with what we are doing now, but it doesn't make it right to ignore the situation!

Thanks to Barrie Heard for many years of service to the Association as the Penetration Course Co-ordinator. It was always a pleasure working with Barrie and getting to understand his ways. Hopefully we will see Barrie Instructing again soon. George Yarra is acting as the Course Co-ordinator until someone is appointed.

Paul Leslie has passed on his CDAA Products job and Terri Allen is now distributing them from home until she finds a replacement. Thanks for the work Paul, another job that gets little reward for the effort by a volunteer.

Heike has handed Instructor Materials to Ian Taylor and our thanks

go to her for the years of work she has put into this position. Enclosed with Guidelines you will see that nominations are being called for the positions of Standards and Business Directors and for AGM Business. Think carefully about nominating and ask questions, it amazes me how people come into this job with no idea of the amount of time and work it takes. Want to know about the position, read the Constitution and then call the previous position holders or simply ask me, because I will tell you the facts, no sugar coating, no "suck you in" to a position you could end up hating! I want you to get as much enjoyment and satisfaction as I get and.... you actually don't have to agree with me all the time!

"After discussion with the Constitution Committee it was decided that to enable members not to be disadvantaged when presenting any Constitution changes, they should present their comments to the Committee first. The benefit of the Committee looking at the proposal before it is presented to the members for a vote is that it will be worded to match/suit the current standard of presentation. It will be checked for spelling, composition and punctuation and finally checked to see that it is a Constitution change and not a Regulation matter. History has shown that if this was done before some of the proposals would have been returned by the members."

Regards, Warrick McDonald CDAA National Director.



## **Report from the Business Director**

Business is going along smoothly at present with the accounts again looking good. The next issue of guidelines will have a preliminary financial report.

In this issue of Guidelines you will find an invitation to the AGM in Mt Gambier which will be held at 7:00pm on Saturday October 7, 2006 at the Comfort Inn Silver Birch conference room. Accommodation will be available at cheaper rates with a 10% discount for CDAA members. Finger foods, tea and coffee will also be available. I would appreciate an email if you are definitely attending as this will help with catering.

The AGM announcement in this issue also serves to call for nominations for two director positions: Business Director and Standards Directors plus a call for Member motions and Amendments to the

Constitution.

Please consider the options as this is your opportunity to either help run the CDAA as a director or to have a say in how things are run. Remember that any changes to the constitution require 50% of the entire membership to vote, so it is in your interests to research areas you would like to change — and then put forward a good argument.

On other matters – I have handed over Instructor Materials to Ian Taylor. I am sure he will do an excellent job. I am still looking at upgrading the

CDAA certificates, and have forwarded on some ideas to all instructors plus the membership via the CDAA email list.

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Regards, Heike.



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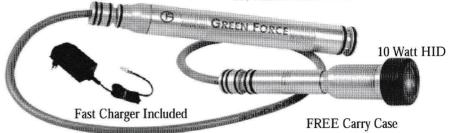






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## **REMINDER TO ALL TANK CAVE DIVERS...**

A Tank Cave returning diver application form and the annual \$110 fee will be required before any bookings can be accepted. Renewals are due August 1st.

Dates	Supervisor	2007 DATES	
August 5 - 6	Steve Trewavas	January 13 - 14	Steve Trewavas
August 19 - 20	(Mapping Weekend) Gary Barclay	January 26 - 28	(Australia Day) Chris Edwards
September 2 - 3	Stan Bugg	February 3 - 4	George Yarra
September 16 - 17	Robert Brennan	February 10 - 11	Barrie Heard
Sept 30 - Oct 2	(S.A. Labour Day) George Yarra	February 24 - 25	Guide TBA
October 5 - 6	(Extended Weekend for	March 10 - 12	(Victorian Labour Day)
	non Vic/S.A. divers) Jane Bowman		Chris Edwards
October 7	(Females Only) Jane Bowman	March 24 - 25	John Vanderleest
October 8	(Extended weekend for	April 6 - 9	(Easter) Jane Bowman
	non Vic/S.A. Divers (Jane Bowman)	April 21 - 22	Linda Claridge
October 28 - 29	John Vanderleest	May 5 - 6	(Mapping) John Dalla-Zuanna
November 4 - 5	Barrie Heard	May 19 - 21	(Adelaide Cup) Warrick McDonald
November 18 - 19	Stan Bugg	June 2 - 3	Guide TBA.
December 2 - 3	John Dalla-Zuanna	June 9 - 11	(Queens Birthday)
December 16 - 17	Linda Claridge	June 14 - 17	(Extended weekend for non
Dec 30 - Jan 1	(New Years Day) Gary Barclay		Vic/S.A. Divers) Warrick McDonald
		July 21 - 22	Robert Brennan

## **INSTRUCTOR MATERIAL ORDERS:**

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.
- Student kits cannot be returned.
- Instructors must be active.
- 6. Please do not pass my number on to dive shops you should deal with them not me.

IAN TAYLOR - 0411118134. 48 ONE AND ALL DRIVE, NORTH HAVEN, SA 5018.

## UP COMING COURSES

## Cavern / Sinkhole Courses

17-30 July, 2006 - in Melbourne and Mt Gambier, all twin tank diving. Instructor: Terri Allen - 0419 176633, 03 8532 1453 - terri.allen@baker.edu.au

7-20 August 2006 in Melbourne and Mt Gambier Instructor: Jane Bowman - 03 9579 2600 - info@abocean.com.au

## **Cave Courses**

17-23 July 2006 – in Melbourne and Mt Gambier 18-24 September 2006 - in Melbourne and Mt Gambier Instructor: Warrick McDonald - 03 9579 2600, 0408 374112 info@abocean.com.au

## **CDAA Penetration Courses**

Sept 29/30/ Oct 1 & Oct 7/8 Contact: George Yarra, Stds Director Email: standir@cavedivers.com.au

Please download the latest application form off the webpage - www.cavedivers.com.au

## KILBY'S DATES FOR 2006 (Sat. & Sundays)

- July 1st and 2nd
- August 5th and 6th
- September 7th and 8th Sept. 30th and Oct. 1st

- November 4th and 5th
   December 2nd and 3rd

## ~ Articles for Guidelines ~

- Send articles & photos via post, or preferably by email to: Terri Allen, PO Box 7592, Melbourne 8004.
- Email to pubdir@cavedivers.com.au and seapics@alphalink.com.au
- Text files should be saved as Word files and pictures as separate jpeq files. If mailing please send pics and text on CD.
- 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.

## \*CDAA INSTRUCTORS

NAME	CONTACT No.s	Cavern	Sinkhole	Cave	Penetr	Email
A.C.T. APPS, HEIKE	BH 02 6249 9170 AH 02 6291 0566	Yes	Yes	Yes		heike.apps@ga.gov.au
N.S.W.						
FEATONBY, TIM	Mob: 0402 129 253	Yes	Yes			tim.featonby@defence.gov.au
GRILLS, PETER	Home 02 4950 6262 Mobile 0419 820 920	Yes	Yes	Yes	Yes	peter_grills@hotmail.com
WALTERS, DESMOND	BH 02 6041 1405 AH 02 6025 3506	Yes	Yes	Yes		dive@descend.com.au
SOUTH AUSTRAL						
SOUTH AUSTRAL						
YARRA, GEORGE	M: 0418 847 889	Yes	Yes	Yes	Yes	gumbyg@adam.com.au
MARRIOT, MAX	M: 0428 897 897	Yes	Yes	Yes	Yes	dive69@chariot.com.au
TAYLOR, IAN		Yes	Yes		ian.tay	lor4@defence.gov.au
	_					
VICTORIA						
ALLEN, TERRI	Mob: 0419 176 633	Yes	Yes			terri.allen@baker.edu.au
AXTON, PAUL	BH 9782 1671 Mobile 0419 346 442	Yes	Yes	Yes		lozhard@bigpond.com
BARCLAY, GARY	AH 03 5565 8793 Mobile 0407 052 074	Yes	Yes	Yes	Yes	garinda@tpgi.com.au
BOWMAN, JANE	BH 03 9579 2600 Mobile 0407 566 455	Yes	Yes			info@abocean.com.au

## CDAA INSTRUCTORS - VICTORIA CONT.

NAME	CONTACT No.s	Cavern	Sinkhole	Cave	Penetr.	Email
VICTORIA, cont.						
BUGG, STAN	AH 03 9379 8791	Yes	Yes	Yes		sbbugg@micronica.com.au
CLARIDGE, LINDA	Mobile 0408 052 070 ÃH 03 5565 8793	Yes	Yes	Yes	Yes	garinda@tpgi.com.au
CORNELL, BRIAN	Home 03 5985 2514	Yes	Yes	Yes		cornell@alphalink.com.au
DALLA-ZUANNA, JOHN	Home 03 9434 1216 Work 03 9480 1316 Mobile 0407 887 060	Yes	Yes	Yes	Yes	jdz@paintandcustom.com.au
HARDMAN, LORRAINE	0418 304 120	Yes	Yes			lozhard@bigpond.com
LESLIE, PAUL	03 9879 2868	Yes	Yes		info@dive	rinstructionservices.com.au
MCDONALD, WARRICK	Work 03 9579 2600 Mobile 0408 374 112	Yes	Yes	Yes	Yes	info@abocean.com.au
MONACO, RUBENS	BH 03 5984-1799 Mobile: 0413-429-533	Yes	Yes	Yes		info@idcscuba.com.au
WEALTHY, BOB	Mobile 0417 524 005 Home 03 9786 5905	Yes	Yes	Yes	somerset	@iimetro.com.au

## CDAA PRODUCTS ORDER FORM

Limited Products now available at Pine Tank Lodge.

Please send to: PO Box 7592, Melbourne VIC. 8004

QTY / COL/SIZE	ITEM		UNIT PRICE	TOTAL
	Basic Underwater Cave Surveying. The standard publication for anyone remotely interested in research survey techniques used in water filled caves.	:h and	\$30.00	
	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 an	d jump reels.	\$25.00	
	Cave Diving - A Blueprint for Survival. A book by the world-renowned cave diver, the late Sheck Exley is a case study of a number of accidents that have occurred in the USA and how to avoid them.	, this	\$15.00	
	Caverns Measureless to Man. The story of the passion for cave diving of the late Sheck Exley who spent his life exploring underwater caves. Publications Directors pick. Amazing book you can't put down once you start, a must read!			
	Cave Practice & Equipment. Edited by David Judson British Cave Research Association. Updated 295 Paillustrated with over 200 line drawings & 33 pages of dramatic photographs. Full chapter on cave divi	ge book,fully ng by Martyn Farr.	\$40.00	
	CDAA Occasional Paper No. 2. From National Conference 1981. Includes topics such as Fossil Cave, Bel. Techniques and Cocklebiddy 1979.	ау	\$2.00	
	DAN Emergency Handbook. 1995 Edition by Lippmann and Bugg. Printed on waterproof paper, this essential first aid manual should be part of every cave Divers kit.		\$17.00	
	Deep Into Blue Holes. By Rob Palmer. This is the project manual written about his trips to the Bahama some of the most advanced and spectacular caves in the world.	s, diving	\$55.00	
	Diving in Darkness By Martin Farr. Personally signed by the author. Provides a clear, concise and mode of the essential equipment, skills and techniques required to dive in caves, mines, wrecks, and beneath Published in softback Diving in Darkness is packed with 170 photographs and diagrams throughout it	rn overview ice. 5 128 pages.	\$75.00	
	Hidden Splendours of the Yucatan Hidden Splendors of the Yucatan is photographer/author Lalo Fiorelli's exploration, teaching, and photography in the caves of Mexico's Yucatan Peninsula. His stunning photography complemented by the lively, down to earth writing style that brings the experience of exploration to the reader A must read for those planning a Mexico trip or at least dreaming of one!	story of	\$49.00	
	Lower South East Cave Reference Peter Home's illustrated catalogue of the Lower South East Region of So	uth Australia.	\$130.00	
	NSS Cave Diving Manual. The standard reference manual in cave diving covering just about every contopic. New Edition. CURRENTLY UNAVAILABLE	ceivable	\$55.00	
á.	NSS Cavern Divers' Manual. The standard reference manual in cavern diving covering almost every conceivable topic. Also most principles behind safe sinkhole and cave diving.		\$30.00	
	New Edition of Peter Horne's Lower South East Cave Reference. An illustrated catalogue of the Lowe South East Region of South Australia. CURRENTLY UNAVAILABLE	r 1	\$130.00	
	The Darkness Beckons. By Martyn Farr. The history and development of cave diving.			
The Cave Divers. By Robert Burgess. Paperback 352 pages. Full history of cave diving in the States and further afield. An				
	Australian Cave Diving - A Contrast. By Tony Carlisle, Four short documentary type videos on Warbla Cave, Three Sisters Cave, The Road to Toad Hall and Tank Cave.	yanaay manaa	\$30.00 \$25.00	
Australia "Nullarbor Dreaming". During November 1988, a team of Australian cave divers set out on an amazing adventure to explore the mysterious subterranean waters of the Pannikin Plains. Cave. This epic underwater exploration nearly ended in tragecty when a freak cyclonic storm hit the area and the cave collapsed trapping the expedition below.				
	DIR 2004. Jarrod Jablonski & George Irvine - 3 DVDs. 8 hrs veiwing. Great sections on stage tanks, beautiful diving sho	ots in Wakulla	\$99.00	
Florida "Window to a Hidden World". The ultimate cave diving adventure. Andrew and Liz with fellow cave diver-explorer Wes Skiles, take us a journey to discover the beauty and danger of the Florida aguifer. Beneath the surface of Florida lies one of the planet's largest freshwater reserves. Producers: Andrew & Liz Wight.			\$29.95	
Mexico "Water of the Gods". An exploration of ancient Maya ruins and underwater caves. Producers: Andrew & Liz Wight. Director: Liz Wight.			\$29.95	
	Water of the Gods - Under the dense jungle of Mexico's Yucatan Peninsula lies a vast freshwater source relied upon Mayas - a materious and complex penies who built and occupied complex limestone cities in this region for over two the Andrew and Ize Wight explore their hidden caves, uncovering their beauty and mystery, and providing a link to the past.	by the ancient busand years.	\$29.95	
	Cuba "Beneath the Surface". This documentary explores the role water has played throughout time in the history of Cu It reveals some of the many beautiful aspects of this magical Carribean islant, explores the bizare subternanean caverns and unexpected contrasts with Cuba's turbulent history. This is an expose of a Cuba we believe we know.	ba. provides	\$29.95	
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l —		ZE - Please Advise	\$25.00	
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	Blue Crew Neck T-Shirts - Royal Blue, Regular logo Sizes S, M, L		\$25.00	
	Ladies' Crew Neck - Smaller white t-shirts with shorter sleeves and "female" cut Royal Blue, CDAA regular logo on the front. Sizes 8,10,12		\$23.00	
	Beanies. Navy only.		\$19.00	
	Caps. Black only.		\$20.00	
	CDAA Key Rings. Blue with gold motif. CDAA P.O. Box on back.		\$5.00	
	CDAA 25th Anniversary Stickers. Yellow. Include stamped self addressed envelope for delivery.		\$1.00	
	Tank Cave Poster. Full Colour 14.5" x 25" poster of Tank Cave by Peter Rogers. Price includes p&h.		\$8.00	
	CD of Guideliens 1-91 All Guidelines as searchable pdfs on CD.		\$10.00	
	DVD of Sidemount Workshops		\$10.00	

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## CDAA SITE ACCESS - www.cavedivers.com.au

Remember: Access is a privilege, not a right. Please be considerate of landowners wishes. CN = CAVERN S = SINKHOLE C = CAVE P = PENETRATION **ACCESS DETAILS** OWNER LEVEL **MOUNT GAMBIER - SOUTH AUSTRALIA DEH SITES** • Groups of 6 or more, phone/mail to Dept. for Environment & Heritage (DEH) **Ewens Ponds** Nil DEH P.O. Box 1046 Smaller groups, no need. Mt Gambier 5290 (08) 8735 1177 Fax: (08) 8735 1135 Gouldens CN DEH General Diving: Divers to contact DEH and notify of date and site to be dived. Please make requests by phone or fax only. 2 Sisters P.O. Box 1046 Divers must have the correct CDAA diving endorsement for the site and carry current CN Mt Gambier 5290 financial CDAA membership card. The diver must have signed an indemnity with DEH Fossil Ph: (08) 8735 1177 before access is permitted. Fax: (08) 8735 1135 Training: The Instructor is to notify DEH of the date the sites are needed and to forward signed indemnities from each student and their temporary card number/ membership number. **Piccaninnie Ponds** Permit holders by phone or fax. Be aware of delicate vegetation. \$20/dive or annual Permit \$50. as above NOTE: Indemnity form to be completed with membership renewal. Horse & Cart Peter Cunningham By phone or mail, 1 week prior. Ph: (08) 8738 4003. Tea Tree CN PO Box 2168. Mt Gambier 5290 District Council of Grant Little Blue - permission not required - must carry card. Little Blue Allendale District Council of Grant Obtain key from Lady Nelson Tourist Information Centre. Ela Elap 5 Mr. Peter Norman Visit the house before diving. One Tree If no one home - no dive! **FORESTRY SA SITES** Weekends Only. Between May & November inclusive. Maximium of 4 divers per day undertaking One Dive per day. Dave's Cave Hells Hole Minimum of 4 divers to be on site at all times.. Pines C/P Unrestricted numbers / days Unrestricted numbers / days. Mud Hole **Nettle Bed** Open every weekend. Maximum of 4 divers, 1 dive per day. Weekends only. Maximum of 3 divers per day undertaking 1 dive per day. Sidemounts recommended. Stinging Nettle Cave Iddlebiddy Open every Saturday Only. Maximum of 4 divers, 1 dive per day. Book on-line. Owner: Contact Forestry SA by email, fax or phone or book on-line via the CDAA website to arrange permit Collect permits from the Forestry Office, RHS of driveway to Carter Holt, Jubilee Hwy, Mt Gambier. IMPORTANT: • No diving on Total Fire Ban Days. • Permit also required to run compressors during fire danger season. • Keys for Hells Hole, Nettle Bed, Iddlebiddy and Stinging Nettle Cave can be obtained from Lady Nelson Visitor Centre on presentation of Forestry SA permits. Kilsby's Landowner leased Access - Open first weekend of the month. to S.A. Police Refer to CDAA website. Twin Tanks - Maximum depth of 40 metres. Meet at gate of property at 8.55am or 12.55pm. Book on-line at www.cavedivers.com or contact Craig at kilsbys@cavedivers.com.au No Visitors No animals, visitors or mid-week diving allowed.

#### **CDAA SITE ACCESS**

SITE	LEVEL	OWNER	ACCESS DETAILS
MOUNT GAMBIER -	SOUTH AUS	STRALIA (continued)	
Shaft  CURREN  CLOSE  UNTIL  SEPTEME	:D -	Generally open one weekend a month. Trevor Ashby	For access dates refer to Guidelines or the CDAA webpage. Nitrox as a diving mix is not allowed in the Shaft unless a trimix endorsement is held but deco mixes attached to the shot line are permissible. Refer to Shaft access bulletin within CDAA Regulations. Divers applying to dive in the Shaft for the first time must document dive experience with twin tanks, and deep diving.  Download form off website.  Email: shaft@cavedivers.com.au (Linda Claridge, 0408 052 070)
Hann's cave	Р	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 8am - 8pm	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. Diving should be avoided after heavy rain due to possible water contaminance. Diving hours are now restricted to 8am to 8pm CST.
Three Sisters	Р	Millicent Council	Download Indemnity from Web Page. 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.
McKay's Shaft	S		Contact Site Director at Mt. Gambier access and indemnities.
Tank Cave	Р	Mr. DYCER	Access Manager: Noel Dillon. Email: noel.dillon@macquarie.com
Baker's Cave	С		Please write to the Site Director to dive in Baker's Cave. Include stamped self- addressed envelope. Climbing equipment required. Only open October to April.
NULLARBOR - WEST	ERN AUSTR	ALIA	
Cocklebiddy	C/P		Apply in writing for permission to dive at least 4 weeks in advance of trip to:
Murra El Elevyn	P/C		District Manager, C.A.L.M., PO Box 234, Esperance, W.A. 6450.
Tommy Grahams	С		Phone: (08) 9083 2100 Fax: (08) 9071 3657.
Weebubbie	S/C	DPI	The Department for Planning and Infrastructure, Midland, Land Asset South East PO Box 1575, Midland 6936. Contact Bob Hamilton, Email: bob.hamilton@dpi.wa.gov.au Phone (08) 9347 5047 Fax (08) 9347 5004
N.S.W WELLINGTO	ON CAVES		
Limekiln	P/C	Both Penetration and Ca	we Level are being accepted for this cave depending on it's water level at the time. The cave
(McCavity)		has a restriction at the e	ntrance which is underwater making it a Penetration Dive. During drought, the water level drops t the restriction allowing experienced Cave Divers access to this delicate cave.
Water (Anticline)	C	Affected by high CO2 lev	els during Summer/Autumn.
Access is co-ordinate	ed with the	Wellington Caves manager	nent by Greg Ryan - gregr@cs.usyd.edu.au. Phone (02)97434157
Rum Jungle Lake	S		Unrestricted access currently exists – Please refer advice Guidelines #68 or check CDAA websit
Burrinjuck	S/C/P		This is a tri rated site. Please see details in issue No. 73. There are no specific access arrangements.



## **AQUA ZERO DIVE CENTRE**

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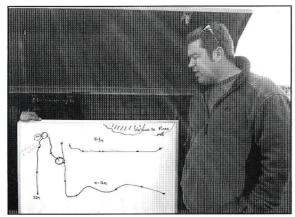
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- Great backup or helmet light
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JUNE 2006 - PAGE 30

# RECENT PENETRATION COURSE



Top - George Yarra discussing the course in Pines during recent Penetration Course.

Bottom Left - "You mean you want us girls to do....What?" Sara and Andrea having a big think!

Below - Warrick keeping an eye on any "cheat" slates owned by John Currie and Stuart White.

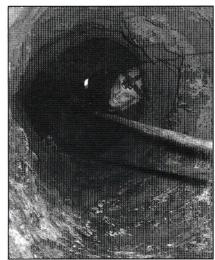
Bottom Right - Stuart very happy after his first Pen dive in Iddelbiddy.

Photos by Terri Allen.









## TANK CAVE SCENES

photos by Warrick McDonald



Terri Allen & Grant Pearce at Tank Cave.



Richard Irndorfer, Carlo Virgili & Geoff Swan inside the new Tank Cave shed.



George Yarra setting up the frame at Iddelbiddy for the June Course.

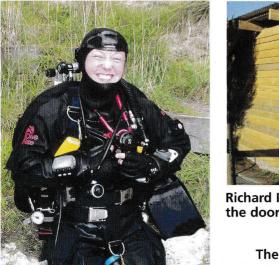


Geoff Chambers having finished his Gold Line dives at Tank Cave.

## MORE FROM MT. GAMBIER



Andrea & Sara planning their dive at Gouldens for Penetration course



Sara Ibison, happy to have passed the stress test at the recent June Penetration Course.



Richard Irndorfer and Geoff Chambers at the door of the new Tank Cave shed.

The new pontoon at Picaninny Ponds.



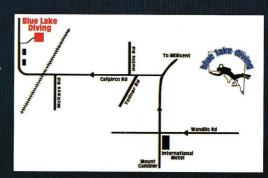
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