

# HUFF



Head Up Feet First is the Newsletter of OzHPV Incorporated.

OzHPV can be found at [www.ozhpv.org.au](http://www.ozhpv.org.au), or by mail at OzHPV Inc, P.O. Box 189, HRMC NSW 2310.

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## *New Logo, New Look but Same Direction*

*by Michael Priest*

Welcome to the somewhat overdue first HUFF of 2006. It's got a new face and a new editor, taking over from the mighty Tim Smith. Tim very ably and adeptly edited and produced HUFF for some seven years, a very long time indeed. He produced a remarkable Journal, and I only hope I can live up to the standard he's set!

The layout's been changed with a fresher look, and it will continue to change over the next few issues as I tweak and adjust to fit HUFFs needs. If you have any comments nice or nasty please let me know.

I've spent the last three days at the Canberra Show - for those that don't know me I run Fuse Recumbents in Canberra - talking and listening to people about recumbents. I really enjoy this sort of stuff. Of course there are onlookers that dismiss them out of hand and won't even discuss their opinion, but by far the majority are genuinely curious about these strange machines that seem to be becoming more and more frequently seen (at least in Canberra) and are willing to give you a hearing to explain your strange obsession. Only a few will ever go through to buy, but it's astonishing just how many say they've been keen to get closer, just to see our machines for themselves. As most of you will already know, once someone actually sits on a 'bent they begin straight away to see just what it is you're talking about.

There's a huge free kick here if we want it - wave the OzHPV flag by talking to our upright or non-riding cousins and they *will* convert. Not in thousands, maybe not even hundreds, but they will. And at some point 'bent riders will reach a critical mass that will make 'bents a logical and obvious choice as alternative to cars, and we've come a long way to meeting our group aim of reducing our dependence on our current environmentally toxic petrol-powered transports.

My aim is to keep HUFF as both an internal discussion mechanism, and as a medium for us to show others why we're so damn obsessed with our HPVs. So send me your stories and photos - tell me about Wonthaggi and Broadford, let me hear from new converts, or send essays about your latest homebrew machine and why it's a worldbeater. HPVs may be few in number, but it's not because they're unpopular. It's because we haven't made them well-known enough yet. Let's work on that.

Cheers,

# “SwingBaby”

by Damian Harkin



**SWINGBABY IS THE LATEST** outcome of my obsession to build a back-to-back tandem that can be split into two separate bikes. The previous plywood monster “ATB” (seen at Broadford last year) was too big and too heavy, so I’ve tried to simplify it. To achieve front-wheel drive and suspension, ATB mounted the whole front end on a suspended subframe. Chain tension can’t affect the front suspension because the whole chain run is on the suspended part of the bike. This worked well, but introduced a zillion extra pivot points and WEIGHT.

I got thinking about Flevobikes. They have suspension and FWD and they’re pretty simple. People seem to be able to ride them. So after reading Erik Wannee’s excellent website, I decided to make something like the Knakker, but with suspension and a reversible drive!

The frame is 51 x 1.6mm ERW tube from Robot Trading with 5 mitre joints! The steering bearings are deep contact sealed ball bearings 30mm OD x 12mm ID. The head tube is 32 x 2.5mm tube 95mm long, bored out by Steve Nurse to take the bearings (Thanks Steve!). The yoke that surrounds this is cut from 100 x 50 x 4.5 Rectangular Hollow with a 12mm bolt down the middle. The rake is 45 degrees and there is supposed to be about 50mm of trail, but this varies with suspension movement. Pull the 12mm bolt and the bike falls into two halves which easily fit into my little Mitsubishi Mirage.

The back wheel is 20” with a wheelchair hub and a push-button axle (Tioga Comp Pool tyre). Front wheel is a small 16” with a Maxxis Hookworm and an 11-34 sprocket cluster.



The wheels were made by Michael Rogan at MR Recumbents and were previously seen on the above-mentioned ATB. But now I've gone and added a Shimano cable disc brake from Greenspeed (Thanks Paul Sims!).

Up front, the driving wheel is mounted in a frame that wraps right around the wheel – the 'PowerStick'!. The front end of this frame has a long stem or boom to which the BB shell is clamped. Thus, the whole transmission is self-contained on this part of the frame. A swing-arm pivot is formed by two 10mm rod-ends also clamped up to this transmission frame. By loosening swing-arm pivot clamp, the powerstick can be flipped through 180 degrees to drive the bike backwards (ie when it is being used as the back half of a tandem). The stoker will have to pedal backwards. Is this funky or what? I spent such a long time thinking about this!

The spring/elastomer is from a Birdy – bought from Cycle Science in Mitcham (thanks Peter Holloway!). I've ruined it by allowing the whole assembly to cock sideways, bending the spring as you can see in the pics. I'm going to remake the pivot clamp and spring seats to stop this happening in future.

The handlebars are from a folding silver scooter. The left bar carries the rear brake lever and can be easily unplugged to stay with the rear half of the bike. I've mounted the brake levers on bar-ends so that the cables come down vertically in the middle of the bike, clearing my legs. Also this helps me to ride it because my braking grip doesn't interfere with the steering. You have to steer it with your bum – trying to steer it with the handlebars is futile. I'll leave the handlebars on though, because they make it easy to pick the bike up.

When I build another one of these bikes, the two will bolt together at the back axle sleeves. The face of this sleeve is on the bike centreline, therefore the back wheel is currently offset to the right - more on this later... The big tubes running up under the seats will connect together with a heavy flange and some bolts.

I made the seat from three pieces of 3mm marine ply, laminated together whilst clamped down to the seat of another bike (the Flevobike tandem). It's held on with exhaust-pipe clamps from Midas.

Eventually, I will build a rear swing-arm with an elastomer suspension. The swing arm pivot will plug into the sleeve in place of the back wheel. The swing arm will be bent to bring the wheel back onto the centreline of the bike. So I'll have a choice between a symmetrical suspended bike or a lighter lop-sided one. The swing-arm will not be used during tandem operations.

I can ride it! It took a few days to get going and I'm still very tentative. I rode 43km up

at Maryborough with Robert and Jana Waryszak and I didn't fall off, but I did bail out a couple of times, slamming my feet down and hitting the brakes. I think it needs more trail. I rode it no hands for minutes at a time – it's actually more stable this way.

There are plenty of 'teething problems'. The 63 tooth chainring is very sensitive to chain angles. (You change down two gears and the chain instantly derails). I've currently got a nylon guide to stop this happening – I cut this from one of Joan's chopping boards (Thanks Joan!). The bike currently weighs about 15kg, but it ain't finished yet...



## *The Aussie Kyle Fairing*

*by Tim Marquardt*



**I WILL HAVE** the moulds for this fairing in Australia in Early Jan '06.

In partnership with Ben Goodall, a complete bike will be sold. However, we are willing to sell you any of the following:

1. Fairing only, made as 2 halves & supplied as 2 pieces. You decide the construction (i.e. fibreglass, carbon, Kevlar...) & then I quote.
2. AS above, but completed as a 1 piece unit. No head bubble or openings.
3. Bike frame to suit the Kyle Edge fairing.
4. AS above, but complete (wheels, gears, frame...)
5. Complete bike.

This is the second fastest ever bike, having been ridden to 125kmh in 2001. We choose the Kyle Edge bike as it is the roomiest of the Matt Weaver bikes, and has proven the fastest thus far. It will lend itself to a heads out setup relatively easily. There is ample room in the forward section for standard cranks.

Ben & I will be making the initial bike to be completed for the 2006 Challenge (April). We are willing to quote any fairing only requests reasonably soon. However, frame & fairing quotes will need to wait until April!

■ Contact Tim at [tim@herma.com.au](mailto:tim@herma.com.au) or on 0408 531 031



# Minutes of OzHPV Inc. Annual General Meeting

Saturday 3 December 2005

**1 Meeting opened** 7.30 pm and chaired by the secretary (Atholl Reid). 18 members present.

**2 Apologies:** David McCook; David Henshaw (treasurer); Damian Harkin

**3 Minutes of previous AGM** (13 November 2004):

Read by Atholl who asked for minutes to be adopted

Proposer Helen Curtis

Seconder Chris Curtis

Agreed by show of hands

**4 President's report (Rudolf Werner):** report handed in for the records.

Report synopsis - 2004/5 was a year of "Spring cleaning" and reflection: many things required tidying up and sorting out. Membership needs to decide on what it wants from OzHPV and do things to get them. Discussion on following:

## a. Items reviewed

- i. Insurance: investigated – no better deal available
- ii. Membership numbers and distribution: membership numbers static with some "churn"; two main areas of activity – VIC and ACT; membership fees raised by executive as allowed by constitution
- iii. OzHPV Challenge and Canberra Rally: processes redefined and clarified – safety – rules – accountability -
- iv. HUFF and its distribution: hard copy quality raised (still black and white); distribution refined and sped-up; almost 40% want hard copy, hence amended membership rates (see later item); Thanks to Tim Smith, who has expressed a desire to step down, for his continued work on HUFF
- v. International links: ongoing attempts being made to get other websites to refer to [www.ozhpv.org.au](http://www.ozhpv.org.au)
- vi. Website and internet: big redesign: thanks to Andrew Stewart for his work on the web site

## b. Member requests

- i. Logo; competition held (poor voting response) and new logo decided upon
- ii. Merchandising: investigated – not actioned due to consideration of future of OzHPV and funding

## c. Issues arising

- i. Financial security – see treasurers report
- ii. Future direction – see Our Future document: constitution says promote HPVs: actuality is an old boy's club
- iii. Operational autonomy of state groups – new notification procedures and event participants register instigated so as to ensure insurance coverage;
- iv. Divisiveness/competition between groups; some mediation carried out
- v. Sustainability of sponsorship: what is the value proposition of OzHPV to sponsors? – no resources to commit and no real input from main body of membership
- vi. Starter pack and brochure: things priced but investment of funds required and decision taken to hold back until future more settled
- vii. Role of OzHPV committee: has overall responsibility for running OzHPV – does not organise events or promote OzHPV or seek sponsorship – all are responsibility of organising committees and membership as a whole

- viii. Events and rules: clarifications requested by executive from organisers – suggestions put forward by organisers – insurance issues clarified

## 5 Secretary's report (Atholl Reid)

Report synopsis – main communication now by email; administration streamlined; processes put in place to keep on top of running of OzHPV

- a. Email generic emails addresses available for president, secretary, treasurer, admin, web, HUFF and local contacts
- b. Response quick turnaround given in most cases to enquiries and issues
- c. Contact executive in very regular (almost daily) email contact with 'phone conversations when required.
- d. Physical meetings treasurer and president now meet very regularly and secretary attends occasionally (due to distance). Special meeting held to discuss insurance matters and to set agenda for the year after the committee were elected at the 2004 AGM
- e. Thanks thanks expressed to all those who did something for OzHPV over the past year

## 6 Treasurer's report (compiled by David Henshaw and delivered in his absence by Rudolf Werner)

- a. Administration accounts now formalised and kept using MYOB
- b. Accounts three years of financial statements given so as to allow comparisons to be made – conclusion is that 2004/5 only just coped
- c. HUFF cost is a minimum of \$2 per printed copy: to date the full costs have not been paid by OzHPV but this will not be the case from now on – if the full cost had been paid then it would have been \$500 at a minimum.

## 7 Questions on official reports:

Q1 Has membership income decreased?

A1 yes

Q2 Does OzHPV Challenge cover its costs?

A2 yes: entry fees designed to cover running costs and it makes a profit due to sponsorship

Q3 Has a decision been taken by the executive to "give away" the profit of the Challenge by way of the prizes being offered at the next Challenge?

A3 No: decision to offer prizes is designed to raise the profile of OzHPV and recumbents as a whole and to try to get more entries from outside the "usual suspects", i.e. the upright racers. If there is no profit next year, then it may be necessary to review the entry fees.

Q4 Why was the challenge given to VIC to run?

A4 It wasn't: several Challenges were run in the ACT and a change of venue was decided upon. VIC now planning their fourth (?) challenge and doing it very well. ACT has run the Rally for the last three years. AGM needs to be between 30 September and 31 December so there needs to be consideration for an event in this period.

## 8 Request for approval of delivered financial statements:

Proposer Helen Curtis

## 9 Discussion of *Our Future* document:

### a. need to sell OzHPV

- i. It adds value to membership and member's machines
- ii. It is environmental (one less car)
- iii. Have regular events in a regular place
- iv. Encourage participation
- v. An advertising hand-out in the form of a postcard was proposed – need to investigate where this is and get it produced 1
- vi. Two main types of events: racing & participation
- vii. Events in new places (first Albury Rally held in early October – thanks to Lloyd for organising it) – need more – suggestion for something in South Australia
- viii. Convert other cyclists – more and regular come and try sessions: VIC runs regular monthly come-and-try sessions and hands out a basic information leaflet: ACT runs a few come-and-try events each year
- ix. Get ideas for events from membership – progressive meal? – and get membership to commit to organising them and participating in them
- x. More material on web site: rather than have CDs, what about a restricted area on the website? Michael Priest offered to host some things with links from OzHPV website and offered technical assistance and effort to get it set up

### b. Questions on Our Future

Q1 *Are new fees too high?*

A1 probably not: need to have income to continue – a show of hands agreed the new fee structure to be reasonable. There was some discussion about raising them further and this was decided against without being put to a vote.

Q2 *What are the fees for other cycling organisations?*

A2 Bicycle Victoria is around \$90 for a family membership and Pedal Power (ACT) is about the same.

Q3 *If VIC notify OzHPV of all events they plan to run, will insurance costs increase?*

A3 No: cover is not dependent on the number of events

## 10 Election of Officers

a. Peter Heal agreed to take charge of meeting: 2004/5 executives stood down

### b. Nominations for President:

- i. Rudolf Werner
  1. Proposed by Ian Humphries
  2. Seconded by David Cox
  3. Rudolf elected unopposed and accepted the position

### c. Nominations for Secretary

- i. Atholl Reid
  1. Proposed by Helen Curtis
  2. Seconded by Ian Humphries
  3. Atholl elected unopposed and accepted the position

### d. Nominations for treasurer

- i. David Henshaw
  1. Proposed by Rudolf Werner
  2. Seconded by Helen Curtis
  3. David elected unopposed and accepted the position
- e. Peter Heal handed back to Rudolf and Atholl: Peter was thanked for his role during the elections**
- f. Other positions – all nominated positions – no elections required**
- i. Public Officer Chris Curtis
  - ii. Newsletter Tim Smith has said that if someone else is willing to do it he would like to step down. Michael Priest offered and was accepted. Thanks given to Tim for his marvellous HUFF effort over the last six plus years.
  - iii. Web Editor Andrew Stewart  
Michael Priest assisting
  - iv. IHPVA rep. Ian Humphries
  - v. Local contacts – to be contacted and confirmed
1. ACT Atholl Reid confirmed
  2. NSW Kevin Mason confirmed
  3. SA Robert Braunsthal confirmed
  4. VIC Robert Waryszak confirmed
  5. TAS Tim Smith confirmed
  6. WA email sent not yet confirmed
  7. QLD email sent not yet confirmed
  8. Albury Lloyd Charter confirmed
  9. NT No NT members

## 11 Other business and matters arising

### a. From Nick Butler in WA:

#### *Agenda item*

- It is intended for OzHPV to raise the public profile of recumbent bikes, trikes and other Human Powered Vehicles.
- This would benefit members by increasing public acceptance of OzHPV, these vehicles, increase participation, speed up development and lower the cost of such vehicles.
- Increased profile could be achieved by entering every suitable bike event in Australia.
- A list of suitable events should be compiled and the ideal vehicle (available for purchase) noted against each event
- A budget should be developed
- A suitable vehicle(s) should be purchased and communally owned through equal shares by participating OzHPV members
- The vehicle could be ridden by OzHPV members initially and then by expert riders as required to ensure events were won and records set
- Entrants would arrange/ pay for transport and entry of the vehicle and safe keeping until the next event
- Nick Butler would be interested in being one of the participants

#### *Discussion*

- Generally felt to be a good idea
- In the boat-world, this has previously been a successfully way of raising the profile of a new design.
- Would be good to get a manufacturer or importer interested
- Atholl to contact Nick to suggest that Nick raises his idea on the OzHPV list so as to get discussion from more members. Also to suggest Nick takes this as a personal project to assess the feasibility.

## **b. Increase in membership fees - Tim Smith:**

### *Agenda item*

- Membership fees: too high? Perhaps they will frighten people off? Concerned about membership price increase and how it is received
- HUFF by post - the price has gone from \$15 per year to \$40 which is over a 100% increase and even by email it's only just under a 100% increase. There has been maybe 2 posts I can remember this year suggesting that the rising costs of insurance or similar is getting harder to cover with the existing OzHPV membership fee but personally I'm not convinced it needs to be this much an increase.
- Remoteness of some members - the members that aren't able to get to any/many OzHPV scheduled events the membership fee is really mostly a payment for the newsletter. My guess is many would say that the people who attend the events could pay for the insurance and costs they incur, either directly or indirectly with entry fees etc
- Started to think of it as a HUFF thing then went to it being an insurance thing
- Someone getting the printed copy of HUFF and not attending any OzHPV events incur a cost to OzHPV of 50c per edition to post = \$3. That leaves \$12 left = \$2 per edition for printing costs which I would have thought is probably enough.
- If OzHPV needs money to cover rising insurance cover costs for events then maybe the members located near enough to said events could cover these costs in a fee structure surrounding these events.
- Too high?
- No hope of picking up the many casual members
- Enormous amount of HPV info and support available on the Net so no real added value from an OzHPV membership other than 6 newsletters.
- Insurance means nothing to them as they generally see the distance between them and the Rally's an attendance improbability.
- This type of member would say (be it seen as selfish or not), "I'm not paying a whole lot of money for insurance and other stuff I don't receive any benefit for."
- Present members might say, we don't want (or want to spend any effort on) that type of person as a member anyway as they just expect others to give to them.
- Maybe if we added a low price membership category like CASUAL and attendance at an event had an extra payment (on top of the usual event fee) that covered insurance etc that might have a small chance of working.

### *Discussion and decisions*

- There was a lot of discussion about the fees in the Our Future discussion – see Our Future item in these minutes. This discussion included a vote where the new fee structure was deemed to be reasonable. Some discussion took place on the need for even higher fees but no vote was taken.

## **c. From Steve Nurse:**

### *Agenda item*

- That OzHPV approach the IHPVA with a view to making the Newsletters of all HPV affiliates available to all members of HPV affiliates every six months."
- That is, as a member of OzHPV, Joe Bloggs would receive a CD compilation of all the latest HPV magazines such as "Huff", HPV News, HPV Nieuws, InfoBull, BHPC Newsletter etc. all in PDF form, every six months. This would require the cooperation of many national HPV organisations in releasing their newsletters to a common pool, for the mutual benefit of all their members.
- Benefits: Subscribers to national HPV Groups would get a feeling of real value for their subscription money despite low-cost distribution of newsletters (i.e. via email) becoming more common.

*Discussion and decisions*

- Thought to be a good idea
- Item to be emailed to Ian Humphries for him to take up in his role of OHPVA representative
- As part of this discussion, it was agreed that more information and pictures could be made available from the OzHPV website. Michael Priest agreed to host stuff on his site and to talk to Andrew about password-protecting parts of the OzHPV website for members only to access.

**d. Fairing mould - Tim Marquardt**

*Agenda item*

- Speed record attempt fairing and bike

*Discussion and decisions*

- Tim Marquardt reported that he has been to the USA recently and during his visit he spent time with Matt Weaver, the designer of several speed-record recumbent HPVs. One of these is the Kyle Edge machine,
- Tim announced that the moulds for the fairing would be leaving for Australia within a couple of days of the AGM.
- Ben Goodall (Trisled) will be involved with Tim in producing the first fairing and bike for Tim
- Tim is willing to talk to people about producing other bikes or fairings or whatever using the moulds
- A brief page of information is available from Tim
- The first bike will be at the 2006 Challenge
- The aim is to sell the idea of a speed attempt to sponsors
- Contact Tim for further information

**e. Insurance and OzHPV**

*Agenda item*

The OzHPV committee recently conducted a risk assessment of the association's activities.

One of the main risks identified, was the exposure of organisers and ride leaders to personal liability arising out of an injury or incident.

Generally speaking, this risk is mitigated by OzHPV's Incorporation and the Public Liability insurance it maintains.

The committee is concerned that some groups may incorrectly perceive all their activities to fall under the OzHPV incorporation/insurance umbrella.

This may not be the actual case when a case develops and the situation "goes legal".

As from 19 November 2005 OzHPV will only recognise regional activities as OzHPV official activities (and subsequently be protected as above) in the following circumstances:

- The ride or event is notified to the OzHPV executive at least five (5) working days in advance of the event
- The ride leader and deputy are both financial members of OzHPV
- All participants must adhere to local road rules, must wear a correctly fitted Standards Australia approved cycling helmet and must ensure that any bike they are to be using in the event is in sound mechanical condition
- A list of riders is maintained and contact details of all participants are recorded (this is important in the case of an injury being reported months after an event). All non-members of OzHPV will be required to sign a waiver.
- The ride leader carries a suitable first-aid kit on all events

Additionally, regional organisers should be encouraging membership of OzHPV amongst all participants, not only for the benefits of the regular OzHPV newsletter, but also the personal protection of the OzHPV arranged insurance for personal liability

and personal accident.

- Discussion and decisions
- Discussion took place about this.
- The Executive stressed the need for this policy to be adhered to
- Regular events (for example the Canberra Mob Wednesday morning rides and the VicHPV monthly rides and come-and-try session) can be notified on a yearly basis.
- It was decided that it was unreasonable, and would in fact probably be counter-productive, to require all Challenge participants to take out membership of OzHPV.

*Q1 With respect to the Challenge, are non-OzHPV members covered?*

A1 No cover provided for non-members of OzHPV. The OzHPV cover offers protection for OzHPV members, executive and officials so long as they are not grossly negligent

*Q2 Could additional temporary cover for the duration of the Challenge be offered to non-OzHPV members? Other cycling event organisers do this.*

A2 This will be investigated by the Executive and reported back on to the Challenge organising committee

#### **f. Challenge Draft Entry Form - Tim Marquardt**

*Agenda item*

- Tim distributed copies of the latest draft of the 2006 Challenge entry form. This is a new format and as such it does not use the latest rules or Challenge information and should be viewed in this light.
- Comments should be addressed to Damian Harkin

*Discussion and decisions*

- Executive commented that some points that they have communicated to Damian have not been incorporated into this draft. Tim replied that it was recognised that the information was not the latest
- A comment from the executive was that the Executive must ensure that things such as insurance and other similarly crucial things must be complied with and that as far as the rules and organisation were concerned the organising committee could decide how things were run. Again it was reiterated that the Executive do not run events.

#### **g. Moving OzHPV Forward – David Cox**

*Agenda item*

- Moving OzHPV Forward: how can OzHPV progress as per the aims of the organisation?
- Discussion and decisions
- Reports of OzHPV events should be quickly posted to the web
- Minutes of the AGM will be posted to the web and a link posted to the various email lists
- A call for comments on the running of AGM, the AGM minutes, the future of OzHPV and anything else about moving OzHPV forward will be posted to the email lists

#### **h. Thanks**

Thanks were made to the following:

- Fuse Recumbents (<http://www.fuse-recumbents.com.au>) for sponsorship of the barbeque and AGM. This is the second year of this sponsorship.
- Atholl and Mary for hosting the barbeque and AGM
- The organisers of the Canberra Rally

#### **12 Meeting closed 10.10 pm**

*(Footnotes)*

1 16 December 2005 - Post card idea being investigated

# Solution to a Drinking Problem

by Steve Nurse



My recumbent bike doesn't have a good spot on the frame to hold a drink bottle, but there is a vast corflute tailbox at the back with plenty of room. On most rides (up to 35K) I manage without a drink but for a big ride, some sort of drinking container becomes necessary. A big ride was looming (Round the Bay in a Day "RTB") so it was time to do something.

I bought a metre of clear plastic tube from the hardware store, drilled a hole a bit larger than the tube size in a conventional bike bidon, then stuck the tube into the bottle. Stopped the tube coming out with some sticky tape just below the bottle lid and secured it inside the tailbox with a removable cable tie, gave it a try. It worked fine and continued to work fine for most of the "Round the Bay" but there were a couple of niggles.

If the tube stayed full of water after a drink, the water would syphon out if the free tube end was left lower than the bottle. Blowing out the tube after a drink solved this.

The sticky tape holding the tube in the bottle came adrift so the tube end in the bottle didn't reach the water.

Anyway about a week after RTB, I thought of using a cable gland. Our company buys them to secure flexes to electric motors. So when I got home I drilled out the plastic spout of the drink bottle and replaced it with the cable gland.

Works a treat now!



from the OzHPV Picture CD 2005

## GOT A TALE TO TELL? A PHOTO WORTH SHARING?

Don't hide it - send it in! Triumphs, tragedies, weird and wonderful homebrews or a how-to of some aspect of building a HPV. A travelogue or an event review. Submit them all and share the joy around - after all, whatever doesn't kill us can only make us stronger... right?

Send your submissions to the editor at HUFF, at [michael@priest.com](mailto:michael@priest.com) and get your name in lights today!

# Greenspeed

get out there...

Greenspeed Recumbent Tricycles

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OzHPV  
Australian Human Powered Vehicle Assoc'n

<http://www.ozhpn.org.au/>



**Stuty's Bakehouse**

High Street Broadford

Phone: +61 3 5784 2077

8. Entry is at the rider's own risk. The safety of all vehicles is the responsibility of the entrant. (First-Aid will be in attendance)
9. All types of human powered land craft are allowed. There are no restrictions on layout, fairings, drive systems, materials or number of riders.
10. Vehicles must have 2 independent braking systems.
11. Riders may race on more than one vehicle during the day or different riders may race the same vehicle but each vehicle / rider combination must have a separate race number and be scored separately. Please let the Marshalls know at registration if you intend to enter different rider / vehicle combinations
12. If a vehicle is slowed or fails to complete an event due to mechanical failure, misunderstanding or crashing, the rider may be given a second chance at the discretion of the chief marshal. Re-runs in the case of uncompetitive times will not be granted.
13. Decisions of the judges will be final and marshalls' requests must be obeyed promptly in the interests of safety.

# The 2006 Greenspeed OzHPV Cycling Challenge

April 1 & 2, Reg Hunt Park, Broadford Vic.

8 fun events to celebrate cycling & to find Australia's fastest versatile Human Powered Vehicle(HPV). Events incl:  
Hill Climb Roll down  
Time Trial Off road race  
Road Race Shopping race  
Slalom Race Teams race (Unofficial)  
\$1000 Prize Money  
Open to any type of bike  
More info: [www.ozhpn.org.au](http://www.ozhpn.org.au)



# The *Greenspeed* OZHPV CHALLENGE - April 1 & 2, 2006

## Competitors Entry form (please separate & return this half)

Name .....  
 Address .....  
 State ..... P/C ..... D.O.B. .... / .. / ..  
 Phone (mob) ..... Phone -(ah) .....  
 Email ..... Sex M/F .....  
 Vehicle type ..... Vehicle name .....

Class you are competing in: Junior  Open  Vets (40+)  (Please tick)

Entry Fee (please tick):  \$30  \$10  \$20  \$5  \$5  \$10 extra

Entry to all events  Hill Climb

Adult Single Event (Per event)  Roll Down

Junior All Events (under 15)  1 Lap TT

Junior Single Event (Per event)  X Country

Camping per adult(>15yrs) per night  Road Race

No. Of people:..... No. Of nights:.....  Slalom

Late Entry/Pay on the Day  Shopping race

Payment by Cheque - Amount enclosed: \$ \_\_\_\_\_  
 (Make cheques payable to - OzHPV Inc.)

Payment by direct deposit to NAB BSB: 082-902 Account No: 686382698  
 Please insert reference: Chal06 entry

Your Name: \_\_\_\_\_  
 Amount: \$ \_\_\_\_\_  
 Deposit Date: \_\_\_\_\_  
 Transaction receipt Num: \_\_\_\_\_

I acknowledge that racing may be dangerous. I accept that I am responsible for my own safety and the safety of others. I agree to abide by the rules, which I have read, and all reasonable instructions issued during the event by any OzHPV official and release OzHPV Inc, the management of the circuit complex and their respective agents from responsibility for any injury or damage.

Signature.....Date...../...../.....  
 (Parent / Guardian if rider is under 18 years old)  
 Once completed, please send to:  
 OzHPV c/o 1 Court Street Yarraville Vic 3013  
 Fax: 9332 3026  
 Phone Enquiries Damian (03) 9314 3171 or 0402 346 961  
 damianharkin@fastmail.fm  
 Prizemoney: Overall Mens 1st: \$250, 2nd: \$150, 3rd \$100 Overall Womens 1st: \$250. If 4-6 women compete, 2nd: \$150. If 7 or more women compete, 3rd: \$100. If women 2nd or 3rd prizes aren't awarded, the money will be awarded as \$50 prizes up to 8th place in the men's competition.

**Location, Accommodation, Camping and Facilities**  
 Broadford is 70k north of Melbourne on the Hume Highway. Reg Hunt Park (State Motorcycle Sports Centre) is 3k East of Broadford on the Flowerdale road. Signposts guide you straight from the Hume Highway to the track. A train service runs to Broadford. [MELWAYS Map 510 MB](#)

We have access to the Park from 5:30pm on Friday March 31 to 8am on Monday, April 3. From the entry gate, turn right, follow the dirt road along the Boundary fence for as far as you can go & follow the big hill to the top, over and down. Camping and track facilities are through the gate to the left. Camping facilities include fresh drinking water and a basic toilet block with showers. The Broadford scouts will have a food stall manned all throughout Saturday. Assume that campfires will be prohibited. The Sugarloaf in Broadford is the closest motel, phone (03) 57841069. or Kilmore Visitor's Centre, (03) 5781 1319

### Competition Scoring & Registration

\* To ensure a punctual start we request that all entrants pre-register. There will be a \$10 late fee for entries after 25 March 2006. All events award 1 point for 1st place, 2 for 2nd 3 for 3rd etc. Best 6 races scores to count You may drop your worst race if completing all 7 races The winner of the Challenge is the one with the least points. If you don't take part in any event, you score 1 point more than the person who participated and came last.  
 \* Entrants compete in Open, Veterans (40+) or Junior's (U15 on the day) category. Overall results will be published i.e. Edwina Bloggs came 2nd in the Ladies event & 5th overall.

Organised by the Australian Human Powered Vehicle Association - OzHPV Inc.

### Race Program - Saturday, 1st April 2006

8:30am Registration  
 10:00am Tristed Hill Climb Approx 800m  
 Straight up the steepest hill on the road course. Points awarded by finishing order.  
 10:20am Cycle Café Downhill Drags  
 Roll down the hill (no pedalling) in pairs. Points awarded by the distance you can coast. The top 2 roll again in the final.  
 11:00am Flying Furniture Time Trial Approx 2.2km  
 1 Timed Lap of the Broadford road track, 1 point for lowest time, 2 for 2nd etc.  
 12:00pm MR Components Off-Road Adventure  
 On a tortuous and bumpy course, points by finishing order  
 1:30pm Reflex Fairings Road Race Approx 22km  
 The winner completes 10 laps, others are given points by distance travelled when the winner finishes.  
 2:30pm Typing 2000 Twin Slalom  
 A timed race over a tight slalom course. Fastest 8 times go into elimination finals which decide 1st & 2nd place  
 3:30pm Greenspeed Shopping race  
 Participants must collect & carry "shopping" during this timed event. Time penalties are added if the shopping isn't carried safely or completely

End of Competition for points  
 5:00pm TriSled Mixed-up Relay  
 This is a fun event! Teams must complete 4 laps on 4 different vehicles. Each team must have at least 1 upright bike, 1 trike, 1 recumbent bike, 1 junior and 1 female. Organize your team now!  
 6:00pm Award Presentations

8:00pm Typing 2000 Karaoke/Trivia night  
 Organise your table now! You need good singers, quiz champs and knowledge of pop culture

### Sunday 2nd April

8:30am Stuy's Bakehouse Concourse (in Broadford)  
 Awards for Best Presented and Most Innovative machines, judged by professional and amateur builders of HPV's. These awards are separate from Challenge Points Results.  
 10:00am Social Ride  
 Social ride around Broadford.  
 1:00pm BBQ & Picnic in Broadford. End of Program

### Competition Rules

- All entrants (or their guardians) must sign the declaration on the entry form.
- Approved helmets must be worn at all times during all events.
- Vehicles must be safe and in good working order. Marshalls may request a demonstration of adequate control and braking at any time.
- No dangerous projections or open tube ends likely to cause injury. Exposed chainrings at the front of recumbents must be guarded to prevent puncture wounds.
- Vehicles are NOT to be modified between events. This includes fairings, wheels/tyres and panniers. Riders may change their clothing including carry bags or backpacks. If a trailer is to be used, it must be towed in every race.
- Vehicles are allowed to use energy storage devices only if they are charged during the event from human power. Such devices must be fully discharged before the event commences.
- Vehicle / rider numbers must be adequately attached on the right hand side of the vehicle, and clearly visible to timekeepers. Riders will not be able to race if their numbers are not clearly visible...../PTO