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From The Editor – Pete Heal

Hello Bent Folks.

Well, I've been away overseas a fair bit since the July issue.

I came back expecting a full mail box of members articles and photos, but it was obviously a quiet cold winter.

Steve Nurse once again keeps up the output with his words about the 2013 OzHPV Challenge and his latest Vegetable Fibre concept bike.

Apart from that, it's thin pickings this issue – sorry.

I welcome any input from members. See you at the Gathering!

Pete huff@ozhvp.org.au



OZHPV “Gathering of the Clans” – Saturday 30th November & Sunday 1st December 2013.

OzHPV has been having a gathering at Myrtleford VIC the past few years but this year we are going to Corowa NSW on the Murray River.

The “OzHPV 2013 Gathering of the Clans” will be an informal camping get together for all Human Power Vehicle enthusiasts.

Venue is the **Bindaree Motel & Caravan Park 454 Honour Street Corowa, NSW.**

Bindaree has cabins, units, caravan sites and lots of camping areas.

Participants will need to book their own accommodation if they want a cabin/unit.

There are ample tent camping sites to just “turn up” for.

<http://www.bindareeonthemurray.com/>

Corowa is 300km from Melbourne and 400km from Canberra.

Whilst the main gathering will be on the Saturday and Sunday, you may wish to extend your stay a few days on either side of the weekend.

Activities planned include winery tours, long rides, short rides, human power boats.

Or you can just sit around the campsite and talk about recumbents.

The terrain around Corowa is flat so no hills and there are many quiet back roads.

No entry fee to attend. Kilt optional.

Please get this out to as many groups, forums and interested people as you can think of.



My Delta Lean Steer Trike

By Stephen Nurse, Melbourne Australia, October 2013

Having a broken wooden bike doesn't sound like a very good start for building a new style of trike but for me it was just the sort of incentive I needed. Like many Human Powered Vehicle devotees I had been quite astounded by Vi Vuong's use of pedal cranks as the main part of a tilt and suspension mechanism at the back of a delta trike. With a broken bike, it was almost as much work to restore the bike the way it was as to reassemble it with rear wheels as per Vi's video.



Vi has built many trike and bike variations, mainly in the Python (centre steer) recumbent style. He builds them with his friends and kids using simple materials including recycled bedframes, cardboard and plastic. His youtube page <https://www.youtube.com/user/TheFutonExpress> shows many of these, some of which look difficult and bizarre. Judge for yourself!

The tricky bit of making my Vi-trike was producing the back wheels which need to mount onto standard cranks. Fortunately my local bike recycling centre (Ceres) had some wheels and pedals I could adapt and I managed to put together a version of Vi's trike without too many problems.



When I had my trike together I wrote to Vi Vuong about it and decided to write a broad article about the trikes for the "Hupi" online journal. (<http://www.hupi.org/HPeJ/index.htm>) This should be published soon. In the meantime I have been riding the trike around town and even managed 2nd

place in a couple of ozHpv events (Off road at Geelong and shopping race at Wodonga) . It might not be quite as efficient as my equivalent (aluminium) bike but its just as much fun. I really like the trike and have started plans for a lighter version.

Vi Vuong trikes (he likes to call them iLean) can be made in several ways and the web page <http://en.openbike.org/wiki/~iLean> shows some of these which include cargo and Cruzbike style trikes. They have an interesting and dynamic version of Ackermann steering. (http://en.wikipedia.org/wiki/Ackermann_steering_geometry) Not perfect but changing the geometry can improve things a bit.



PAST EVENTS

OZHPV Geelong Race Day – Sunday 1 September 2013

On September 1, OzHPV held a race day in Geelong and although there were few in attendance, the event was held in good weather and a pleasant time was had by all. The track hire was free except for some time spent negotiating and filling forms for the city of Geelong. (Will you have fireworks at your event? etc.)



Graham Signiorini won overall on his lowracer. Most of these pictures were taken by Aki Kubota. Aki had bought one of my bikes through ebay the week before, came down to watch us race on his mountain bike and was persuaded to enter all the races. Damian Harkin lives about 2k away and he competed on his Hurricane. Kim Tolhurst and George Durbridge managed the scoring and officiating.

After racing, we all retired to Damian's house for beer and coffee, a few yarns covering everything from eReaders to hitchhiking round Australia to importing petrol tanks for Italian motorcycles from India to Pearl sorting and seeing a young bloke called Johnny Farnham at an Ocean Grove dance.

Steve Nurse



2013 OzHPV Challenge – 14th & 15th September, 2103

The OzHPV Challenge was held on September 14 and 15 at the Sheather's Road Kart complex in Wodonga. As well as a small amount of local radio publicity (thanks Lloyd), we had 3 kind sponsors for the event, Greenspeed, MR Components and Trisled. Thanks for coming on board!



George Durbridge ran a day tour along the rail trail from Wodonga to Tallangatta on the Friday before the challenge.

The Challenge is a fairly unique set of races held over a weekend. The aim is to determine the most practical Human Powered Vehicle by running a wide variety of races. Most cycle races don't admit that anything but a standard diamond frame cycle exists and don't test for things like manoeuvrability, acceleration or ability to carry luggage.



Attendance was small but enthusiastic and we had competitors from as far afield as Inverloch (Heather and Mark Withers) and Sydney (Rolf Muller, Colin Whalan, Malcolm Butler, Kate Butler) It was good to see both new and familiar faces.

A few newcomers were bemused by the shopping race. "Do you always do this?" was one remark heard by an onlooker, answered by a resounding "Yeeesss!!".



The twin slalom final was run as a time trial, with Malcolm Butler rightly concerned about safety at the turn around point of the course with 2 very competitive racers on the track. If we run a twin slalom in future years, the course could be arranged better, with the turnaround points for the riders separated. The Wodonga track could easily accommodate this.



Races on Saturday were followed by Pizza, wine and beer, presentations and a trivia quiz at the Kart track clubhouse. After dinner, Rolf Muller and I both gave technical presentations. The clubhouse is well set up for this, it has a large TV which plugs into a 15 pin laptop computer port. Hey Presto and simple as can be you can start presenting anything from spreadsheets to Powerpoint presentations to Cad to Web pages and Web Videos.

Rolf has built a suspended carbon fibre recumbent bike which he calls his "Magnum Opus". His work on the bike involved making a complete lighting system controlled in part by the bike speed, a wooden prototype, vacuum bagging machinery, and moulds and heaters for camping mat foam. Materials include balsa wood, surfboard foam, fibreglass, steel and aluminium. You can see his hyperactive video compressing several years of shed work into just 3 minutes at <http://www.youtube.com/watch?v=K1hJFRQ7rIE> . It was interesting to get a detailed account of the bike build - and incidentally the bike and Rolf went well at the Challenge, coming third overall and first in the Senior's. My bike is detailed elsewhere in this issue!

Sundays racing took place on Sheather's road and included a 2k time trial run by mobile phone and the OzHPV timing gear. 2k was a longer distance than previous years but all ran smoothly.

The OzHPV timing gear was again used for the 200m sprint. Willem Reid had overhauled the gear (thanks!) following the 2012 challenge and this was the debut of the reconditioned system. It worked very well with only one or 2 minor hiccups. The gear could easily be used in more races and provide better timing accuracy, ie in the 1 lap time trial and Go to Whoa.



Overall winners were Jamie Friday 1st, Malcolm Butler 2nd, Heather Withers Women's winner, Kate Butler Junior winner, Rolf Muller Senior Member. And a pleasant time was had by all.

The Challenge in its current form is well set up, easy to run and has the potential to grow. Long may it run!

Best wishes

Steve Nurse



Growing the Challenge

Challenge entries have dropped to about 10 racers over the last few years from higher numbers, (ie 28 in 2006, 37 in 2005). We have all the organisation of a good race meet that can spread the word central to OzHPV's aims: "HPV riders have a free spirit and this spirit is alive and well in Australia. Our intention is to promote HPV's as a way to travel and as a way of reducing polluting motorised transport."

Our current organisation includes:

- * posting notices of the challenge on HPV and other bulletin boards
- * press releases to Albury / Wodonga media with a few resulting radio interviews.
- * asking for and gaining a small amount of sponsorship
- * good camping accommodation supported by catering at the Wodonga site.
- * well run races and friendly competition

And to expand?

* Well having a few more people organising would help. In years with high attendance, the organisation has been done by a committee meeting regularly and sharing and increasing the amount the work done on the event. Ideally the committee should include people from several states and from the cycle industry making it easy to approach sponsors.

* The event could be moved to a different time and a different place to make it part of a cycling festival or network of cycling events such as the current and new Cycle Salute in Northeast Victoria (<http://www.cyclesalute.com.au/events/>) Being part of a festival like this would bring the Challenge back to its Canberra roots (as part of the Canberra bike week event) and attract many more website hits and better attendance. The Cycle event is organised by North East Victoria Tourism (<http://www.tourismnortheast.com.au>) and I spoke to their cycling development officer (Steve Plummer) at the recent Melbourne Gobike Expo who was keen to have us on board.

* Recast the event as a Cycling Event and not as a Human Powered Vehicle event. This would attract more cyclists on standard cycles, something the Challenge has never been able to do.

Ok, all for now I climb off my soapbox.

Steve Nurse



The OzHPV Gazebo

The Geelong races saw the debut of the brand new OzHPV Gazebo. This is a 3m x 3m tent structure that's common at markets and expo's. It allows us to set up an official's table out of the sun, rain and wind at any cycling track. With some extensions, it could also be used as accommodation on an extended, supported cycling tour.

The tent is modular with accessories (tent built in to a wall structure, extra walls etc.) available. Refer <http://www.raysoutdoors.com.au/online-store/products/Boab-Ultra-Heavy-Duty-Gazebo-3m-x-3m.aspx?pid=325464#Combo>. At the moment we have the basic tent and 3 walls.

At the moment this one is based in Melbourne.





Almost, but not quite, entirely unlike tea

Chris Curtis from Canberra has been an OzHPV stalwart since it began back in 1990. He has a keen interest in Solar Power having built and raced a Solar powered HPV in various long distance races in Australia.

Chris lives out towards Bungendore and is “off the grid” electricity wise using solar panels.

At a recent Canberra Mob breakfast ride I thought Chris had come prepared with a thermos of a tea or similar for the chilly morning, but on closer inspection not all was as it seems.



Sorry about the blurry photo, but you will notice the black cable leading back to a discrete black hub motor on his front wheel drive Performer low racer.

Pete Heal



OzHPV Committee

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Next Newsletter

The next HUFF will be produced end January 2014.

Please send your contributions to huff@ozhpn.org.au



2013 OZHPV
CHALLENGE
RESULTS
HELD AT WODONGA KART CLUB
TRACK, SHEATHER'S ROAD WODONGA



Special Thanks: George Durbridge,
Lloyd Charter, Wodonga Kart Club

Number	Name	Vehicle	GREENSPEED Go To Whoa		MR Components Shopping Race			Slalom		Trisled Road Race (Time 37:15)		Time trial		2k time trial		200m Sprint		Total		Special Award
			Time	Place	Time	Penalty	Place	Time	Place	Laps	Place	Time	Place	Time	Place	Time	Place	Points	Place	
1	Mark Withers	Barchetta Carbon Highracer	22	4	2:09		8	24	6	28	4	78.6	4	2:54	2	15.89	3	31	4	
2	Rolf Muller	Home Made SWB	19	3	1:26		3	24	6	29	3	74	3	2:57	3	16.54	4	25	3	1st Place Veterans
3	Malcolm Butler	SWB	18	1	1:26		3	16	2	30	1	70.5	2	2:44	1	15.08	2	12	2	
4	Kate Butler	Mountain Bike	23	9	3:03		9	26	9	6	9	134.9	9	6:42	9	38.61	10	64	9	1st Place Junior
5	Steve Nurse	Vicycle Delta Trike	21	6	1:25		2	21	4	20	6	108.1	8	4:17	6	22.79	7	39	6	
6	Graham Signiorini	Baron Lowracer	24	4	1:30		5	20	3	27	5	85.2	5	3:20	5	19.17	6	33	5	
7	Heather Withers	Racing Bike	24	8	2:07		7	24	6	19	7	100.3	7	4:19	7	26.07	9	51	8	1st Place Women
8	Damian Harkin	Hurricane	23	6	1:41	60	6	23	5	19	8	89.9	6	4:22	8	24.71	8	47	7	
9	Jamie Friday	Preston SWB	18	1	1:19		1	15	1	30	2	69.2	1	2:57	3	14.19	1	10	1	
10	Colin Whalan	Velokraft VK2		10			10		1	10		10			10	18.39	5	65	10	