

The MICROMETER

THE AUCKLAND SOCIETY OF MODEL ENGINEERS INCORPORATED

PO Box 14570, Panmure, Auckland, NEW ZEALAND

Club House Telephone (9) 570 5286

Club Web Site www.asme.org.nz

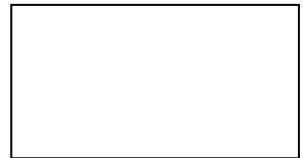
President Michael Jack 527 8745
E-mail address president@asme.org.nz

Secretary Brian Cotton 820 3381
E-mail address secretary@asme.org.nz

Editor Dave Russell 446 0957
E-mail address editor@asme.org.nz

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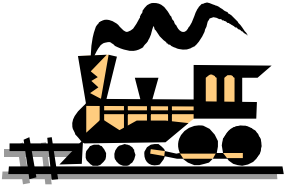
REGISTERED NEW ZEALAND PUBLICATION



RETURN ADDRESS
ASME
PO BOX 14570
PANMURE



BR standard class 9F 92220 Evening Star



Train Roster

Date	Electric	Electric	Steam	Steam	Station	Station	Station	Extra Guard
6-Jul-08	M Granger	J Harrison	<u>B Piggott</u>	A Pritchard	P Moy	G Murray*	E North	
13-Jul-08	D Housley J	S Locke T	D Russell	R VanRyn	<u>J Olsen</u>	B Parker	F Putt*	
20-Jul-08	McManus	Robinson	<u>G Wills</u>	G Anderson	G Quayle*	R Reichardt	M Richardson	P Dowdeswell
27-Jul-08	D Simons	P Swager	<u>G Bell</u>	E Burns	A Roberts	K Ryan*	A Shirley	
3-Aug-08	J W-Buys	P Woodford	L Farquhar	<u>A Gasteen</u>	R Stratton	R Street*	T Taylor	
10-Aug-08	J Yearn	<u>D Black</u>	J Gladwin	M Jack	A Watson	E Anderson	I Ashley*	A Whillans
17-Aug-08	D Booth	T Boyd	M Orange	<u>B Piggott</u>	P Boyes	R Brown	J Burnett*	
24-Aug-08	B Cotton	R Craig	A Pritchard	<u>D Russell</u>	R Crook*	Cunningham	B Currie	J Cunningham
31-Aug-08	T Crake	<u>P Eaton</u>	R VanRyn	G Wills	G Dickey	G Farquhar*	A Foster	P Dowdeswell

Bold and Underlined name – is the designated **Train Controller**, i.e. the person in overall control of all operations for the day.

Bold with Asterisked* name – is the designated **Stationmaster**, i.e. the person responsible for activities in the station area for the day. The Stationmaster is also responsible to account for the day's takings.

Important Notice: Sunday Running

After Sunday running please make sure and return all the equipment to the engine shed, e.g. points levers, water hoses, coal boxes etc. Perhaps the last person to lock up the engine shed could have a quick last look over at the station to ensure all is away.

Club Calendar July 2008

July 1 st	Monthly General Club Meeting, 7.30pm Hugh Martin will speak to the meeting regarding the Jubilee
July 5 th	Working Bee at Clubrooms, from about 9.00am
July 8 th	Committee meeting
July 15 th	Beginners night at Mike Jack's place
Every Tuesday	Tuesday Club

Dave Watts

It is very sad to report the passing of our most senior member David Watts on Sunday the 15th June, peacefully at St Johns Hospital, Epsom. As Stan Locke had mentioned at the last club meeting Dave had taken a turn for the worse recently and was quite sick.

At 92 years Dave was our senior member and was a champion of the Auckland Society of Model Engineers. His work was both prolific and of the most enviable standard, I know Dave was an inspiration to me and I am sure he was to many of his fellow members in the club. Very little was beyond his capabilities as a Model Engineer. In my eyes as a junior in the club it seemed to me that Dave could build almost anything, I remember fondly Dave's IC engine chuffing away every Easter outside the exhibition, other favourites of mine where his 5" Gauge 2-10-0 Evening Star and Lion locomotives.

I know Dave will be sadly missed by us all and our condolences go out to his family.

Dave Russell, Editor

Presidents Report

The ball is now rolling for our preparations for the Jubilee celebrations. Hugh is going to talk about the options that he, Gary and Grant have developed over the last couple of months. Remember, though, that these gentlemen have not been charged with organising the event and so we will be asking for someone to be the central organizer. This is a significant milestone in our club's history and so it should have the ceremony it deserves. Please consider helping in a significant way.

As usual, over the winter months, on fine days we have much larger crowds wanting to ride our trains. It is really important that if you are rostered on to help that you either do so or you organise some one to take your place (usually in return for doing his duty at some other time). A couple of times recently there have been Sundays when we are short staffed which makes it very difficult to run the railway properly. I must thank those who have helped out at short notice or when they have just popped down to have a look and ended up there all afternoon.

We are still having difficulties finding guest speaker. If you're prepared to give a talk yourself on some aspect of modeling, model engineering or engineering in general, then let David Black know. As you know, in lieu of a speaker, we can resort to a video. I thought the short one last month on metal cutting was very interesting. I think some of the tradesmen at work must have been away the day this was shown during their apprenticeship, judging by the way some of the drills are sharpened! Pete Woodford says there are more of those videos about so if you're keen we can screen more of the same.

It is good to see a couple of boilers recently at the bits and pieces part of the evening. Alan Gasteen has come along well with his for a 5" gauge BR Std class 4 2-6-4 Tank locomotive and Hugh Martin had his one for a GWR 2-6-2 large Prairie. All this has prompted me to get on with mine. I am having help from Graeme Bell and Jim McLean to solder mine. This is one of the many good reasons to join a model engineering club. We can pool resources or call on others who have expertise in areas other than our own. I have set the 2010 convention in Nelson as my target finish date so from now until then I'll be in the workshop more often doing my work.

Don't forget that the workshop night is held at my place on the third Tuesday of the month unless I inform you otherwise. And also pencil in the Saturday immediately following the club night for a working bee.

I have just been told that our senior member, Dave Watts, has passed away. He was one of the biggest inspirations I had to achieve the very best I can in model engineering so I owe him much to the way I look at modeling. I only wish I could work as quickly as he did! By the time this newsletter is published his funeral would have taken place. I send to his family all our thoughts at this sad time.

Happy Modeling

Mike Jack

Safety Talk

This month the Safety Talk was given by Grant Anderson.

The focus of Grant's talk was speed, and the fact that we need to be mindful of the speed we are driving at on the club track. It is quite a responsibility when in charge of any locomotive pulling passengers, the club electric engines with a full load of passengers weigh about a ton and should be driven accordingly especially on the down grade parts of the track.

Grant also told us how he had recently visited the Power House Museum in Sydney and can recommend it as worth a visit if you are visiting that part of the world.

Committee Meeting Notes 10th June 2008

The minutes of the previous meeting were read and confirmed as a true record.

Matters Arising: One tonne of char has been delivered and is now in the engine shed. Grant has obtained prices for badges. Greville advised that the Society's move towards charitable status is under way.

Correspondence: IN – Trevor Taylor, Royal NZ Foundation of the Blind, Hugh Martin, Charities Commission, MEANZ, Model Engineer (UK).
OUT – Nil

Sub Committees:

Boilers: Two checked.

Works: Alan Pritchard gave a report on the activities of the Tuesday Club during May. A "Slow Down" sign is now on the entrance to the short tunnel.

Some projecting track bolts near the site of the accident have been cut flush.

Library: Work on the new book cabinet is progressing well.

Stores: Nil.

Safety: Nil.

New members: Nil

Finance: Statement of accounts, plus payments for approval read and approved.

General Business:

Alarm monitoring to be instigated.

There was a discussion re 50th Jubilee plans.

Hugh Martin to be asked to address the next general meeting to outline his team's proposals.

Tabled for next month: Lease renewal

A.S.M.E. Badges

The stock of badges that we sell to the public on Sundays is nearly exhausted.

As the committee feel this is worthwhile advertising and promotes A.S.M.E. to the general public we will be getting some more made.

Based on some quotes obtained we should be able to hold the current price and still make a profit.

It has been mentioned in the past that the placement of the wording could be improved, perhaps even the wording itself changed.

The committee thought it would be a good idea to call on the design skills and ideas of the club at large to come up with a suitable design.

Shown here is the existing design, please feel free to submit your ideas to the committee. Bear in mind that the size of the badge is 55mm and it should be easy to read.



Bits and Pieces Table June 2008

Reviewed on the night by **Murray Lane**

See Photos page 6 & 7

Roger Van Ryn Had been experimenting with the "Home Foundry" Casting of aluminium and had experienced many problems with outgassing and venting. This led to quite a discussion on these topics from various members.

Christopher Ratcliffe had brought along a "pack" of sheet metal plates with the shapes accurately laser cut and drilled in preparation for assembly. These items were supplied by Doug Hewson and are for a 5" g. "Britannia". **Photo A**

Two items tonight from **Hugh Martin's** "Prairie" locomotive ashpan made in stainless steel and TIG welded together, and a very elaborate throttle valve, also most of the boiler for the same engine.

Photo B

John Olsen had made a 1/4 scale model of the Pedestal valve of the beam pumping engine at Motat. This has been presented to Warren Green as a token for his help toward getting this engine running. **Photo C**

John had been spending some of his pocket money on various digital readout units, one about 600 mm long, another about 225mm and an angle measuring device with a digital readout, all at very reasonable prices, the latter at \$69 + GST. **Photo D**

Last month, I reported about **Graham Bell** making various bits for a facet grinding machine for gems. Tonight, he had brought the unit along for us to see how it operated and also the plates used for polishing the jewels (but no jewels, unfortunately). **Photo E**

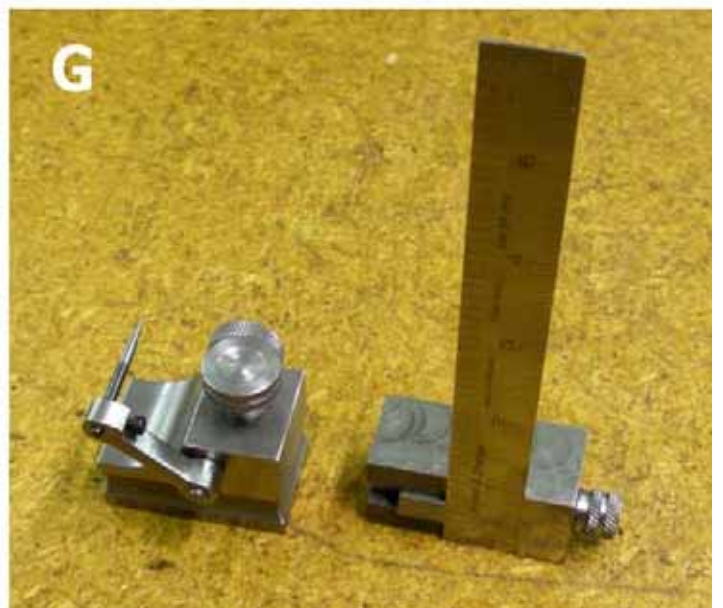
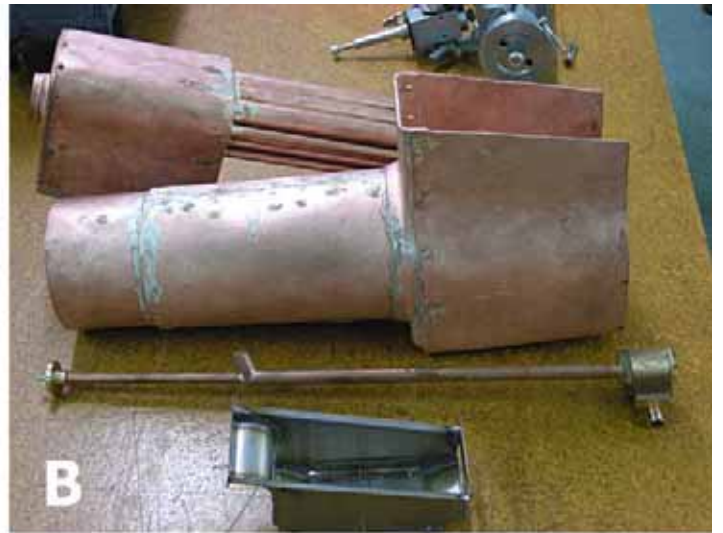
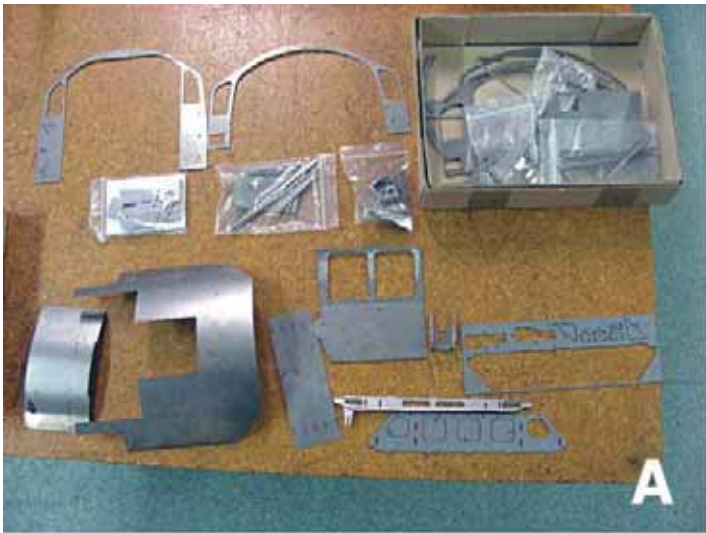
Greville Wills needed to put a largish hole neatly in thin sheet metal, so he made a "chassis" punch of the type well known to early radio constructors. This was on the table. **Photo F**

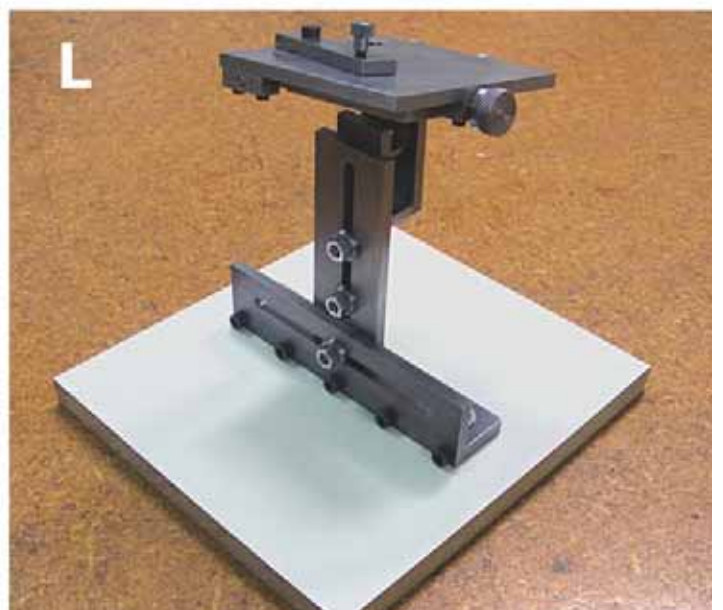
A selection of small tools was on display of the type described by Geo. Thomas; in this case, a ruler height gauge, a scribing block **Photo G**, and a jig for cross drilling circular rod accurately. **Photo H**. There was also a small light duty (ungeared) circular table complete with stops. **Photo I**. These were made by **Allan Foster**.

Mike Jack had the Fowler traction engine cylinder, which I mentioned last month needing rectification. This time it was looking very much better after a dose of Mike's C.N.C. work performed upon it. It had now been re-machined accurately. **Photo K** Mike had also a 5" gauge, 15 ton coal type wagon of British design that was scratch built and looked very realistic indeed. **Photo J**

The last item tonight was a universal grinding table for grinding lathe tools etc. to shape, accurately. This was made by **Dave Russell**. **Photo L**

J.G. Yearn





Engineers Needed

We have had the following enquiry looking for Engineers interested in helping with this TV production.

Hello there I am the producer of a kids science and technology TV show called Let's Get Inventing. We are looking for engineers who are keen foster children's interest in technology. We are keen to meet any of your members that might like to appear on the show helping kids realize their invention dreams. Our funds are modest but we are willing to pay people for their time however this is not a business opportunity so much as building a relationship with those who believe the youth of today need to get out into the shed and make things and discover how they work. Luke Nola 09 3777 044 021 701 236 A link to a page about our show: <http://tvnz.co.nz/view/page/687734>

Around The Clubs

Blowdown, Autumn 08

Good photos of the Manukau Convention [including the Les Moore Challenge] and of their Open Weekend.

Canterbury Tales, March 08

Interesting Club news and comments on Management issues.

Durban Society of Model Engineers, May 08

Details of a Propane burner suitable for a forge. More on welding and a revue of a book featuring a steam motor cycle.

June 08

Article on jet engines. Obtaining suitable coal still a problem.

Southern Rails and Sails, April/May 08

Club visit to Dunedin and all about ship stability.

June/July 08

Cover picture of some heavy duty turning. Interesting wood clock.

Model Torque, Hawke's Bay, Feb 08

Busy time in Napier with Art Deco and a visit from the new cruise ship Victoria. The track points now worked by remote control. Each driver carries a garage door type control and all the parts unplug at the end of the day. Also brakes being fitted to all the trolleys.

March 08

Burrell Traction engine recovered after being buried for some 50 years, seemingly reasonably intact. Photos of the Open Weekend. Novel way of raising money, recovering the debris from a caravan demolition derby for scrap.

May 08

Open Weekend at Anderson Park Railway on the 5th and 6th of July. See poster on the notice board.

Nelson ME

Invitation to visit their **50th Anniversary** on the 20th & 21st September 08. Also the **STEAM AND CINDERS 2010 INTERNATIONAL LIVE STEAM CONVENTION** to be held on the 6th to 10th January 2010. Info on the notice board.

Mailship, Feb 08

Outings to Hamilton and Tairua. Interesting article on paddle tugs.

March 08

The history of building the boat pond.

May 08

Club news and pictures of the pool and the BBQ.

Blast Pipe, Hutt Valley and Maidstone ME, March and May 08

Lots of interesting Club news. Some comments on the Kapati problem and an article on gear cutting. Some locos being sold on Trade Me.

April 08

Safety issue with people on the trains leaning over to take videos. Some good track running and nice photos.

June 08

A number of good articles and photos. A partly built Paddington for sale. Mock up of a tooth generator setup on a shaper.

Piston and Prop, April 2008

Request for members visiting other clubs to take their Membership Card as well as their Driving licences. Presumably Boiler Certs needed too. Repairs underway to prepare for the Audit.

Expansion Link, Hamilton, March 08

AGM time again. Plenty of Club news.

April 2008

Good selection of photos including the Les Moore prize winning boilers.

Swarf, New Plymouth, Nov 07 & Feb 08

Details of an unusual steam engine from a website

www.greensteamengine.com

Robbie's' searchlights used to guide in kayaks in. Building a Springbok.

March 2008

Story of a steam driven aeroplane. Traction engine visit to a rest home to give the residents a ride. Photos of assorted locos.

Conrod, Otago, Feb/March 08

Festival week a great success. Good photos of the event.

April 2008

www.omes.org.nz

Some photos from the 1950 era and some recent ones. Visit to the Gore track, from the pictures it appears to be raised multi gauge, including 71/4".

Boilers, Rotorua, March 2008

Story of the Tagus, slight problem with silicone O rings. Progress on the 10-1/4" model. Interesting train rides in Taiwan.

Leading Points, Thames, Feb 08

Story and pictures of the track and the opening in 1998.

April/May 08

Good article on UK diesel locos [and what CoCo means]. Photos of the track and the new engine shed, all looking good.

Wheels and Floats, Tauranga, Feb 08

Three Phantoms under construction. Details of their Les Moore entry and photos of the Keirunga Park track being built.

March 08

Photos of the Hallswell and Little River stations, plus some interesting bits and pieces. Good funnies too.

Northern Views, Whangarei, Feb/March/May 08

Whangarei to host the 2012 Convention. Replica of Mary Ann [Queensland's first loco] built by Peter Olds Works. Photos of the Open Day. Article on the Allengheny locos. Visit to Motat. An ice loco and a well loaded Indian train.

April 08

Successful track running days. A roller type expanding tool. Articles on the Welsh Railways and a boiler explosion. And again some good funnies.

Engine Booster, Los Angeles, March 08

Some 71/2" gauge equipment for sale. Proposal to electrify the entire LALSRM track using a third rail. Will look forward to more info on that.

March/May 08

Great photo of an engaged couple in a Pullman Car. Two seats face each other with a table between them. Next stage, I suppose is a dining car all on 71/2 " gauge. Spring Meet to be held May 23-26. This to be followed by the Halloween Spooktacular.

Steamers and Dreamers, Manukau Live Steamers, April 08

Open Weekend to be held on Queen's Birthday Weekend. [31 May to 2 June] Details on the notice board. Photos from the Australian Live Steam Convention. Visit to Havelock North track.

The Generator, Palmerston North, Jan and Feb 08

Stan Compton's Letter from England plus the opening of the Wildwood Light Railway. Story and pictures of the traction engine recovered at Hunterville.

The Keirunga Park Platform, Havelock North, Autumn 2008

Photos of the new station with it's shade cloth roof. Visit to Hillside Railway Works. Visit to Manukau. More photos and comments on.

www.keirungaparkrailway.org.nz/events

Mixed Traffic, Wanganui, Feb/April 08

Seems Rod Stewart is a model railway fan. Article on the Goat Valley Tunnel Deviation. A good assembly of Bits and Pieces on the table. Photos and news from the Thames weekend. Reference to Clupet rings.

Alan E

Upcoming Model Engineering events

5-6 July 2008	Hawkes Bay M.E., Open weekend, Anderson Park Railway
20-21 Sep 2008	Nelson M.E., 50 th Anniversary
27-28 Sep 2008	A.S.M.E. Open weekend, Peterson Rd Reserve, Panmure
4-5 Oct 2008	Melbourne Society of Model Engineers, Model Engineering Exhibition
22 Nov 2008	Glenbrook Vintage Railway, Open day for enthusiast clubs. Be there by 1.00pm. Train rides and workshop visit by donation.
Sept 2009	A.S.M.E. 50 TH Jubilee
5-11 Jan 2010	Nelson M.E., Steam and Cinders 2010 International Live Steam Convention

Club Sponsored Guide Dogs

We have received a letter of thanks and a news update regarding our sponsored guide dog "Gabby". Here is a brief of the letter received.

To the President and club members

Gabby has graduated, a big thank you for making this happen, it would not have been possible without your sponsorship and commitment over the past two years.

Gabby has been placed with a female handler in South Auckland, the teaming up went smoothly under the eyes of the Guide Dog Services Mobility instructor and the team passed with flying colours.

Gabby is the fourth guide dog this handler has had and apparently she has some big shoes to fill, her handler has fallen in love with her and she has a real character we are told.

The pair travel daily by bus into the city where they work, while weekends are spent relaxing. Gabby's handler is particularly impressed by her ability to settle in any social or work situation.

Martin Casey
Regional Fundraising Manager
Royal New Zealand Foundation of The Blind

New Sponsored Guide Dog

We have received a letter advising the details of our new sponsored Guide Dog puppy.

To the President and club members

The new puppy is a black (chocolate) Labrador named "Gibson", he was born on October 1 2007 at the Guide Dog Breeding Centre in South Auckland.

The Foundation thank us for our ongoing support and commitment through sponsorship of the rearing and training of a guide dog puppy. They acknowledge that without such sponsorship their ability to rear suitable guide dogs would be much harder given there is no government funding.

Gibson has started his training with his puppy walker and was placed with her at seven weeks of age, she fell in love with him as soon as she seen him. The only thing that he is not sure about is motorbikes but they are sure this will pass. He is learning the basics of "sit" and "stay"

The Foundation will be in touch again in a few months to advise on Gibson's progress.

Martin Casey
Regional Fundraising Manager
Royal New Zealand Foundation of The Blind

A framed photo of the new dog "Gibson" has been received and will be hung in the clubrooms next to the photo of "Gabby".

Club Stores

Gary Farquhar has available ex stock from the club stores the popular Workshop Practice series of books, these are available at very attractive prices by contacting Gary (09) 576 7025.

Also now in stock, Cadmium bearing silver solder suitable for boiler and fitting work.

Visit to E. Hayes & Sons Ltd, Invercargill, NZ

Over the last couple of month's as happens this time of year I have been travelling around a large part of New Zealand coordinating and carrying out stock takes for the company I work for. This involves a hectic schedule of one day here next day somewhere else with early morning starts and late finishes.

We travel by car where possible to keep the costs to a minimum but when distance and time are critical we go by aircraft. It is amazing just how cheap it can be to fly if you plan ahead and book online. Recently we obtained flights to Wellington and also Christchurch for as little as \$69 one way. This is fine till you need to fly to a provincial town that only one airline services e.g. Christchurch to Invercargill cost \$235 one way.

Now to get to the real story, we arrived in Invercargill early one Thursday morning and after working hard all day to complete the stock take of the branch, the C.E.O. who helps with these things suggested that we all go to dinner with the local staff to the Speights Ale House. This was a treat as they have a great restaurant and the servings are good wholesome fair and large, needless to say this led to quite a late night. The revelry was spurred on by the fact we had just finished the last stock take for this year, sixteen stock takes in total.

The next morning we awoke to a brisk chill blowing in from the southern ocean. We had some time to spare as the flight back to Auckland (via Christchurch) did not leave till 11.45am. One of the chaps with our group who comes from that part of the world suggested we go and have a look at this Hardware store that he knew of. After some debate revolving around why anybody would go and look at a hardware store while suffering from a hangover, it was decided that we had nothing better to do anyway.

We packed up and drove round to Dee Street (the main street) and eventually found what looked from the road like just another Hammer Hardware store at number 168. Upon getting out of the minibus we approached the front of the shop with some scepticism, upon looking in the window we were amazed to see that the shop went back for what looked like an eternity, its huge was heard from someone in the group. We had to go in and see this shop, honestly it is amazing, words can hardly describe the amount and variety of stock, Tools, Camping Equipment and all the stuff that real hardware store used to stock. The hand tool wall display alone runs the length of the building over 100 meters and is reputedly the largest range of tools in New Zealand.

After wandering around the shop for a while we came to the back part of the shop and here is a display of Burt Munroe (Worlds Fastest Indian) bikes and memorabilia. We then found what looked like a pile of junk thrown together from scraps of wood, copper, steel and various pieces of plumbing parts. About this time one of the staff approached us and explained this item was an Internal Combustion engine built by E Hayes the founder of the company after taking on a bet that he couldn't build such an engine from the scrap lying around his workshop. The chap says to us "where are you blokes from" we answered "Auckland", this brought the usual scornful stare given to such sinners, he then says "would you like to see it run", unanimous answer "Yep". So he makes sure there is some fuel in the thing by looking at the carburettor float bowl (an Agee preserving jar) and says to me could you give it some choke while I give it a crank, OK. At this point he shows me a part that I recognised as a garden water tap and says just put your finger over most of the bottom till she's running, you wouldn't believe it but a few cranks from the handle on the end and this contraption bursts into life. Well we just stood there in awe as the pile of bits swayed, rocked, pushed, pulled, wobbled and dripped for a few minutes till he turned it of by shorting out the plug.

We had a good look over the rest of the collection and left with just enough time to get to the airport. If you are ever in Invercargill, make a point of visiting this establishment, it is well worth the effort. Until such time, you can visit the website where there is lots of information and Photographs.

www.ehayes.co.nz

Dave Russell, Editor