

The MICROMETER

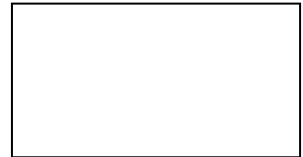
THE AUCKLAND SOCIETY OF MODEL ENGINEERS INCORPORATED
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Number 540
October 2009



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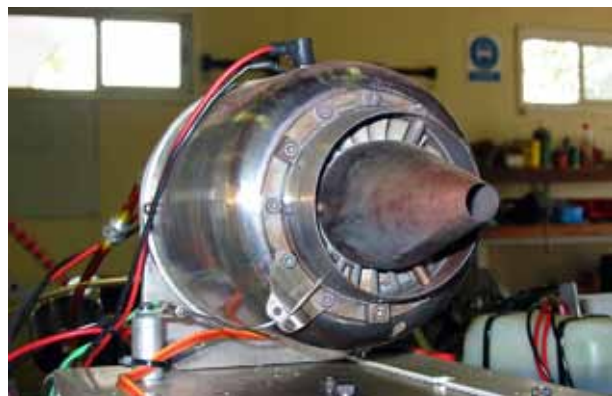
REGISTERED NEW ZEALAND PUBLICATION



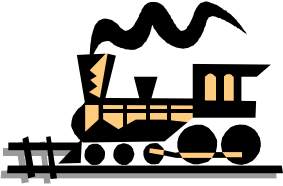
**Note: The General meeting in October
is the 2nd Tuesday of the Month
ANNUAL CLUB AUCTION**

A.S.M.E. Jubilee
Friday 2nd – Sunday 4th October 09
Waipuna Hotel, Panmure
www.asme.org.nz
jubilee@asme.org.nz

RETURN ADDRESS
ASME
PO BOX 14570
PANMURE
AUCKLAND 1741



Model Jet Engine by Allan Roberts



Train Roster

Date	<u>Electric</u>	<u>Electric</u>	<u>Steam</u>	<u>Station</u>	<u>Station</u>	<u>Station</u>	<u>Extra Guard</u>
1-Oct-09	----- ASME Exhibition day - Setup Day ----- Many Volunteers Required -----						
2-Oct-09		T Taylor	A Pritchard		T Lawrence	T Taylor*	R Copland
2-Oct-09		T Taylor	S Day		T Lawrence*	M Richardson	A Pritchard
3-Oct-09	S Locke		S Day		T Lawrence	T Taylor*	R Copland
3-Oct-09		M Plant	S Day	G Leaborn	T Lawrence*	M Richardson	P Jones
4-Oct-09	R Craig	P Woodford	B Piggott	A Ure	R Brown*	T Lawrence	A Pritchard
4-Oct-09	J Harrison	D Housley	M Jack	G Leaborn	J Burnett*	R Copeland	R Crook
11-Oct-09	J McManus	T Robinson	<u>B Piggot</u>	--	R Brown*	B Currie	P Cunningham
18-Oct-09	J W-Buys	P Woodford	<u>A Pritchard</u>	--	G Dickey*	A Foster	D Hamp
25-Oct-09	M Plant	J Yearn	<u>D Russel</u>	--	R Hannah	G Healy	M Hollis*
1-Nov-09	D Black	D Booth	<u>R Van Ryn</u>	--	P Jones	T Lawrence	D Leybourne
8-Nov-09	B Cotton	R Craig	<u>G Wills</u>	--	W Lord	I Lyons	H Martin*
15-Nov-09	T Crake	P Eaton	<u>G Anderson</u>	--	S Meikle	A Murley	G Murray*
22-Nov-09	M Granger	J Harrison	<u>G Bell</u>	--	E North	J Olsen*	W Parker
29-Nov-09	D Housley	J McManus	<u>L Farquhar</u>	--	G Quayle*	R Reichardt	M Richardson

Bold and Underlined name – is the designated **Train Controller**, i.e. the person in overall control of all operations for the day. If you are the **Train Controller** you should phone around the others rostered for that day to make sure they remember to turn up.

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. **Please Note**, there is no expiry period or date on train ride tickets previously sold.

Club Calendar October 2009

- October 1st – 4th A.S.M.E. 50th Jubilee Exhibition and dinner, Waipuna Hotel, Panmure
- October 13th **NOTE: IT'S THE 2ND TUESDAY IN OCTOBER (Due to the Jubilee)**
General Meeting and annual club Auction
- October 20th Committee Meeting
- October 27th Workshop Night this month at Mike Jack's, 5 Matangi Road, Mt Wellington

Presidents Report

As you may have noticed this newsletter has come out a week earlier than usual. This is to give you as much notice of last minute matters to do with the exhibition and celebration dinner.

With only a couple of weeks to go we are in the home straight and the last minute dotting the "i's", crossing the "t's" is hopefully taking place. Remember that we are running a television campaign in the week leading up to the exhibition. A schedule of showings is elsewhere in the newsletter for your information.

We are looking for a great weekend, both with the weather and the public turnout. Mentioned at the last club meeting, we will be sending you a group email advertising the exhibition and asking you to forward this email to as many people in your address book that you can - all advertising will be a great help.

Hugh has indicated in his report, this is going to be a very busy weekend and we need to have as many members as possible to volunteer and assist in some or several of the activities. David Black is looking after the track and club facilities on the Saturday and Sunday. We ask that if you are assisting on the station, or operating a Locomotive / Traction Engine, that you report to him in the first instance.

Remember there will be morning and afternoon teas and lunch provided in the clubrooms and this will be free to members who are wearing the official lanyard type ID, otherwise there will be a \$5.00 charge. You will need to report to the main exhibition desk on arrival to get your ID tag if you haven't already had an ID label given to you when dropping off your exhibits.

By now you should have received an emailed version of the weekend roster. There are still some spare spaces and we hope that these will be filled on the day with more volunteers. We would prefer an over supply of volunteers than not enough to cope with the potential crowds. If you have any last minute queries please contact Gary Farquhar, Hugh Martin or Greville Wills.

The committee has had several requests to **change the next club night** due to the closeness straight after the exhibition weekend so that members can have a bit of a break after a busy weekend. The committee has agreed with this request and have subsequently decided to change the date of the October Club meeting (and Auction Night) by one week. ***The next club meeting will now be on the 13th October. Please note this date.***

The November Club Meeting is the AGM and an official notice of this meeting is included separately in this newsletter.

So heres to a great celebration on the history of the ASME.

Gary Farquhar

Notice of Annual General Meeting

Notice is hereby given of the Annual General Meeting of the Auckland Society of Model Engineers to be held at the Clubrooms, Petersen Rd, Panmure, Auckland on Tuesday 3rd November 2009 at 7.30 pm

AGM Agenda

- Apologies
- Greetings
- Minutes of Previous Meeting
- Matters arising
- Presidents Report
- Treasures Report
- Setting of next years subscriptions
- Appointment of Auditor
- Elections of officers
 - o President
 - o Vice President
 - o Secretary
 - o Treasurer
 - o Committee Up to 9 (nine) and including Editor / Librarian
- General Business

Brian Cotton
Secretary

Bits & Pieces, General meeting 1st September 2009

A large "What is it?" proved to be the clubs rolling road! Graeme Bell found it in the rafters and gave it a birthday. With some interchangeable lengths of driving chain and a "jockey" from a bike to take out the slack, it should be useful to a club member wanting to test drive a loco. **Photo A**

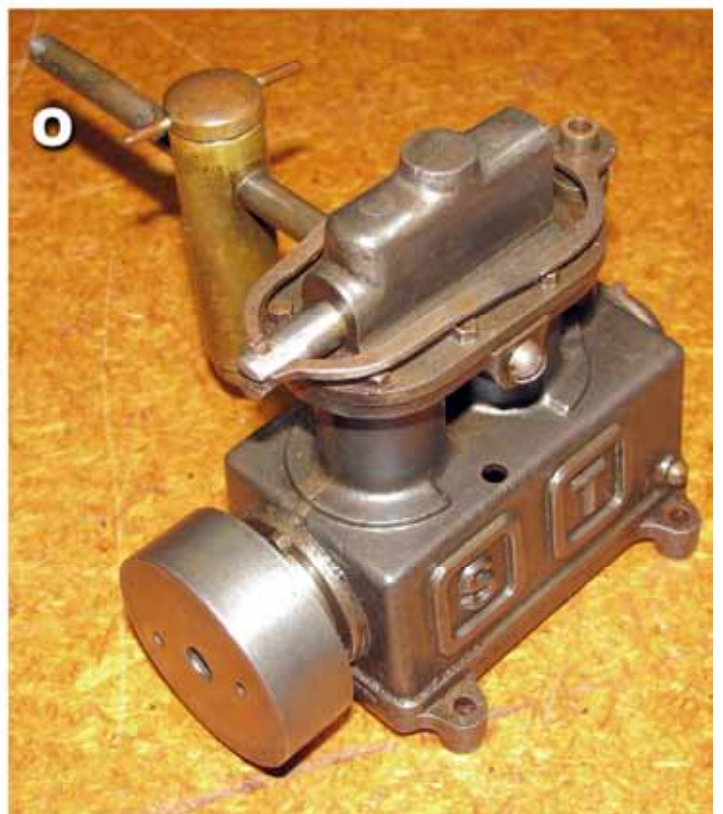
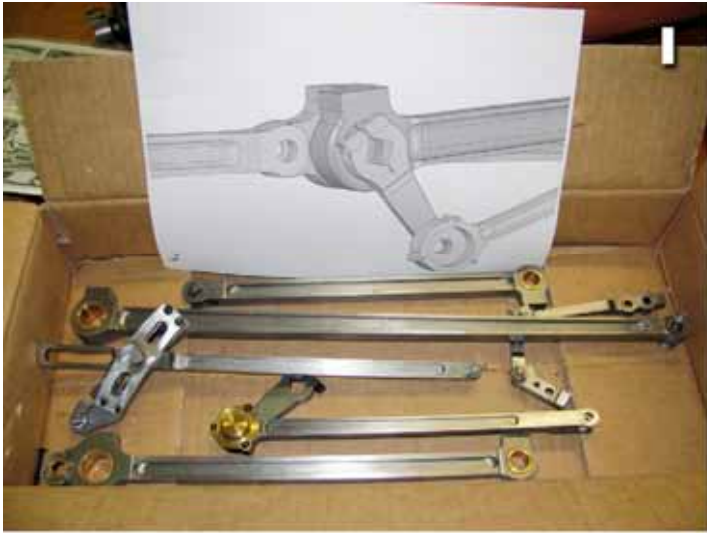
One set of copper parts for a LARGE boiler for Mike Banks 7 1/4 "King" loco. Beautiful soldering throughout and a very neat fire-hole extruded from the parent material as per an idea from M.E. The sloping sides of the fire-hole make it easier to see down to the fire. Mike also used citric rather than sulphuric acid to pickle the parts and found it works very well. **Photo B**

On the subject of boilers, Kendells wont sell the Cadmium bearing solder anymore, so ask the club stores or MBM.

To Megger test some parts in the F&P production line, Graeme Murray has made some serious HT probes. A set of 60Kv plug and sockets made from Silicon tubing and Teflon bar keep the operators safe. Graeme found a way of making tiny conical springs in the lathe. **Photo C**

Continued on page 6 . . .





A box of free (larger) clock springs was donated by Mark Richardson.

Dave Housley had to drill some 1.5mm holes across small d.c. motor output shafts that were at least 60 Rockwell hardness. By using a lot of patience and some 1.5mm slot drills, he managed , and brought them in to show the laser welding used to fix the drive pin (see inset). **Photo D**

http://www.probuild-uk.co.uk/factsheets/ys_engines.php a web site to go to for an explanation how Gary Briggs "Y" 4 stroke motor works. It has a pressurized fuel delivery and when its all set right it should run to 8000 rpm and make about one "horse". The article also give an insight into maintaining the engine, setting the tappets etc. Gary has this engine in a good looking A.R.F. Mustang, "raring-to-go"! **Photo E**

Another model airplane engine, Diesel this time, made by Ross Purdey and based on a vintage (195x's!) "Mills 1.3". Ross has lapped some parts and its all looking "bett'rn a new one". **Photo F**. Ross and Hayden also exhibited a "what is it?" which turned out to be a self indexing boring/facing head made from castings to a "Dore Westbury" design.... I also have one in a similar state of non-completion. **Photo G** Hayden who is one of our youngest members is making a fine job of his little "Simplex" stationary engine, the specs are 3/8" bore x 1/2" stroke with a 1-1/4" flywheel, the engine does not oscillate and uses a rotary valve through the crankshaft. For further details <http://www.workbench-miniatures.com/> **Photo H**

Mike Jack has had to reverse engineer and re-draw a set of A4 coupling rods from a well known kit, prior to making a new set, as the kit ones aren't as good as they could be.... say no more. Mike also showed some expansion links for a "Jinty" to illustrate the wire cutting used. **Photo's I & J**

Grant Anderson might have wondered if some form of metal bogey had been at the wheels of "Hot-Pot". A few members mentioned they had seen this effect even on drivers, where the tires seem to have many sides rather than only one. A new "set of Treads" may be the order of the day. Hot-Pot will also be getting an injector set-up for those long delays waiting in the station behind the 'lectrics. **Photo K**

A few members were also able to offer Grant help on the refurbished valve seat grinding tools he has been busy doing. **Photo L**

Grant has also made water and steam control valve for the addition of the injector to his loco. **Photo M**

Hugh Martin has all but finished one of the side tanks for his GWR Prairie 2-6-2, all to scale appearance with lots of rivets. Hugh pressed out the filler caps from a piece of sheet brass to look just like the full size unit and the clamping catch to keep them closed works perfectly. **Photo N**

A vintage engine donated to the club via Gary Farquhar. Gary carries the story....

This engine has been donated to the club by 95 year old Ranji Otton. It is a Stuart Turner Sun engine made by him in the late 1920's as a young apprentice at Mason and Porter Ltd. Ranji was a member of the original ASME club and displayed this model at the ASME exhibition held in the concert chamber at the Auckland Town Hall in the early 1930's. The Sun was popular with the post war hydro plane movement and can run a boat up to 1300mm long. It could be run on Flash or Saturated Steam. The bore is 3/4 " and Stroke of 3/4" with a 1 1/4" flywheel. *Gary Photo O*

Thanks Roger

Jubilee Update Report

In February 2008 we sat down and set our objectives for the Jubilee event. The main objective was to recognise the efforts and dedication of our past and present members who have contributed so much to the success of our club and to the wonderful facilities that those early members have left for us to enjoy. The Jubilee event is our way of saying Thank You. I sincerely trust that what we have planned will do justice to this aim.

A huge THANK YOU to the small group who have put in many hundreds of hours of planning and preparation. It is now the membership's turn to support the club by helping over the three day event. All indications are that we will be very busy. Volunteering your support in both the exhibition and running the track would be greatly appreciated.

The dinner in the grand Banquet Room is the time when we will formally thank our past and present members, make awards, and generally enjoy a fun-filled evening. A full evening's programme is planned so please be on time.



The names of all club members who have contributed to the weekend's events will go into a draw for the Machinery House Award which will be drawn as part of the dinner celebrations. As Jubilee Co-ordinator this is my last report, so see you over the weekend and let's enjoy ourselves.

Hugh Martin

Upcoming Model Engineering & Associated Events

26-27 September 09	Hamilton Club, Night Running, to welcome in Daylight Saving
2-4 October 2009	A.S.M.E. 50th Jubilee Exhibition
24-26 October 2009	New Plymouth invite us to join them on Labour weekend. Bring your 2-1/2" 3-1/2" and 5" engines also road vehicles welcome. Light up materials and char plus compressed air and 12 volts available. Morning teas and meals on Sat and Sun.
5-11 Jan 2010	Nelson Society of Modelers Inc., Steam and Cinders 2010 International Live Steam Convention www.nelsonmodellors.org.nz

Around the Clubs, reviewed by Alan Emerson

Expansion Link, Hamilton, Aug 09

Cover photo of the freshly painted Amtrak looking good. Poster advertising their night run is now on show in our Club room. One member's adventure on the train to Hellensville, a good read.

Northern Views, Whangarei, Aug 09

Club news and photos of the track. Articles on the Australian "Spirit of Progress" and the theft of railway lines for scrap.

Engine Booster, Los Angeles, July 09

Cover pictures of the City of Hope Run. Looks like a lot of fun. Coming up in October is the Halloween Run. Another great event.

Conrod, Otago, Aug 09

Club news, thoughts and ideas for the 2014 Convention plus pictures and the story of the two local locos A66 and A67. The Workshop Definitions are a good laugh which most of us will relate to.

Big Wheel News, The Steam Locomotive Society of Victoria Inc., July/Aug 09

Good write up on a trip to Woolongong on Queen's Birthday Weekend. Known as the Illawarra Live Steamers Hot Pot Run, admission is two cans of soup which is heated in a large gas fired cauldron and served, with bread rolls, to the attendees. Sounds like a great and enjoyable event. Another member visited the Japanese Railway Museum in Kyoto. A good read with interesting photos. A number of members visited the Bendigo S.M.E.E. Exhibition. Several photos of the exhibits including what must have been the star of the show, a working model of a Caterpillar 60 crawler tractor.

Alan E

Letter to the Editor, Re: The Millau Bridge, Southern France

I was very interested in your article on this and also the letter from Doug Leybourne. While in France in the 90's we spent some time in this area. The first time we saw the bridge it was under construction, with all the piers up and cranes had commenced winching the deck sections into place by pushing or pulling them out to the next pier on what appeared to be a giant cradle. A most interesting sight. A month later we watched for a distance on the old road as they placed the final piece into place. We have some photos of this and in reflection it was an amazing piece of Civil Engineering. When we reflect on progress on our roading projects by comparison, I consider that either the authorities here are either incompetent or saddled with an enormous number of bureaucratic restrictions which hinder progress and cause huge cost blowouts. I would think that the latter is the cause. - Brian Wheeler (Kapiti Min Railway)

Classifieds

WANTED

Graeme Murray is trying to obtain an old fashioned AGEE preserving jar (the old, old, type). Also a lid to suit of the same vintage. This is for a restoration project that Graeme is undertaking on a vintage pioneering piece of F&P medical equipment. Phone Graeme (09) 576 2177

Committee Meeting Notes 8th September

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

Matters Arising: There have been some issues reported with the Ec loco's potentiometer. New Batteries have now been fitted to both club loco's. More newsletters are required to be printed each month.

Correspondence: Nil

Sub Committees:

Boilers: One tested

Works: Work undertaken in both toilets. Brakes overhauled on the Ec loco. Track work ongoing. Smokebox maintenance continuing. Basement cleaned, floor painted.

Library: Books have been ordered but are not likely to appear before the jubilee.

Stores: Nil.

Safety: Nil.

New Members: Nil.

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

General Business:

All October meetings to be put back one week due to the Jubilee.

October general meeting is the annual auction: the auctioneer has been advised that the auction is now on the second Tuesday of the month.

Lease still under action.

Jubilee: Discussions about advertising, exhibit catalogue production and assisting members with transportation of their exhibits.

On the Web

T Gauge Model Railways

Mike Jack found this web site. <http://www.t-gauge.net>
3.0mm gauge, 1/450 scale working model trains. Build a huge layout in a coffee table or carry a layout around with you in a small case.



Polly Model Engineering

There was mention recently of Polly Model Engineering. Someone had got a few excellent castings from them. Check them out at this link...

<http://www.pollymodelengineering.co.uk>



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