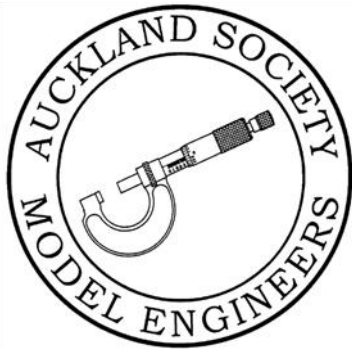


AUCKLAND SOCIETY OF MODEL ENGINEERS INCORPORATED

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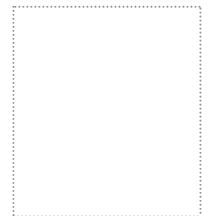
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REGISTERED NEW ZEALAND PUBLICATION

ASME
INC.

THE MICROMETER

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Harrier Jump Jet - One of many being phased out of the RAF



Train Roster



Date	Electric	Electric	Steam	Steam	Station	Station	Station	Extra Guard
3-Apr-11	J McManus	P Moy	<u>B Piggot</u>		P Tomkies	S Weston	D Addis*	
10-Apr-11	A Murley	T Robinson	<u>A Pritchard</u>		I Ashley	P Boyes	R Brown*	
17-Apr-11	R Purdy	H Purdy	<u>D Russell</u>		J Burnett	R Copeland	R Crook*	D Gulliver
24-Apr-11	J W-Buys	P Woodford	<u>G Wills</u>		B Currie	G Dickey	A Foster*	P Dowdeswell
1-May-11	D Black	D Booth	<u>G Anderson</u>		A Foster	D Hamp	R Hannah*	D Gulliver
8-May-11	B Cotton	T Crake	<u>G Bell</u>		P Haycock	G Healy*	P Jones	
15-May-11	P Eaton	M Granger	<u>S Day</u>	(If B Cert ok)	G Kemp	J Lankow*	D Leybourne	
22-May-11	J Harrison	M Hollis	<u>L Farquhar</u>		M Luxton	I Lyons	H Martin*	
29-May-11	D Housley	J McManus	<u>A Gasteen</u>		S Meikle	G Murray	J Olsen*	C Mitchell

Bold and Underlined name:

This 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 :

This 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.

Please Note:

You will notice from the above roster that new members to the club have been rostered on as the Extra Guard. The committee has decided to do this so that the new member has a chance to learn the ropes at the station without being under undue pressure. Please note on your rostered day you should arrive by 12.45pm to get prepared for the days running.

Club Calendar

ASME Events	
April 5 th	General Meeting - talk by Hugh Martin on construction of his recently completed 5" GWR tank locomotive
April 9 th	Working Bee at the track
April 12 th	Committee Meeting
April 19 th	Workshop night at the clubrooms
July 16 th	Mid Year Luncheon - details TBA closer to the date, but please diary this date now
General Events	
5 th – 9 th Jan 2012	International Convention, Whangarei

Presidents Report

April 2011

Many thanks for the turnout of rostered members and extra volunteers that helped make the Panmure Basin Festival Day last month such a success for the Club. From reports I have received, it seems we were very busy indeed with up to four trains operating over the extended hours and with well over a thousand rides given. Well done guys!

Congratulations to Mike Banks on his appointment as Convener of the Boiler sub-committee for this year. Many thanks to Jim Yearn for his many years of past service in this role. And a special vote of thanks to Peter Swager, who has decided to retire from the boiler sub-committee (and the Tuesday Club) due to health reasons, for all the many years of sharing his specialised boiler knowledge and help to members in this important work.

The master painter has completed the painting of the exterior of the Clubrooms. During the water blasting done prior to the painting, rot showed up in a number of areas, especially in some fascia boards and window frames which will have to be repaired fairly promptly and then repainted. At least in the meantime all the good timberwork has received a protective coating ahead of another winter's weather. We will still have to paint all the upper floor areas which will be the subject of some upcoming working bees so as to fully complete the job.

Our "twilight loco run" held from mid afternoon on March 12th was attended by approximately 20 members and friends. There were about 7 steamers on the track, which was great to see. Many members who came along to look also got an opportunity to have a drive, so thanks to those steam engine owners who provided this opportunity – hopefully this will enthuse those members to get their locos finished and/or back on the track! A somewhat better than the expected "basic" BBQ was provided and enjoyed by all – thanks to our chef Greville Wills (helped by Janet). Mike Banks and I were the last to finish driving around the track at 7.30pm – right into twilight hours! Thanks to Timothy Robinson for staying back and helping Mike and I close up.

A working bee has been called for Saturday 9th April (9am start). Please come along and help with a pre-winter clean-up of the track. With the autumn underway by then, there will be plenty of leaves to clean up and some pruning to do. We might also make a start on the clean down and painting of the upper deck area if there are enough helpers.

Included as a loose leave in this issue of Micrometer you will find an up to date copy of the ASME membership list. Please note this is provided to you solely for your personal use and assistance in contacting fellow members and is not to be distributed or used for purposes outside of ASME business.

The committee has recently approved membership applications from Ross Smith and Dave Gulliver and we welcome these new members to our Club. Please make them feel especially welcome as they become involved in Club activities.

By the time you read this, you should have received a separate mail out with a report and questionnaire aimed at surveying the views of all members on the future of our miniature railway. Please make sure you exercise your democratic right and let the committee know what you think by promptly completing and returning the questionnaire to our secretary, David Russell.

You will note in the Club's calendar that another mid-year winter luncheon is planned for July, so mark the date (Saturday 16th July) in your diary now. This is a nice time to see our more senior members who often find travel to evening functions difficult, so come along and support the occasion. Further details will be announced soon.

I think we need more of our station staff to gain their drivers license so that when we are short of a driver (either late or no-show), we can still run one of the club train sets and give the kiddies a ride. A couple of weeks ago, we had a full complement of station helpers but no drivers until later in the afternoon. Our operating code only allows licensed drivers to operate the trains and for safety reasons is not to be breached. If anyone would be prepared to gain their license, would you please contact Greville Wills so that a group training session can be arranged soon. This doesn't mean you will have to drive all the time, but it will allow some more flexibility and coverage when the "chips are down", so to speak.

We seem to have an on-going problem with broken chairs which happens when people use them for standing on. **Please do not stand on our chairs** – if you need to get up to something on a higher level, please use the stepladder provided for this purpose and stored in the library area. It is much safer to use the stepladder, preserving our chairs and saving the Tuesday Club from another repair job!

There have been a number of open days over the last couple of months at other model engineering clubs. I've only been able to get along to one – just last weekend I had a day's running at Hamilton Model Engineers open day. Good to see about six of our members there, including Alan Foster who mounted a nice display of internal combustion engines and workshop machinery.

Happy modeling,

Grant Anderson

22 March 2011

Bits & Pieces

General Meeting, 1st of March 2011

Hosted by Mike Banks, reported by Roger van Ryn

Alan Gasteen has been busy building a vertical boiler from a nice piece of 6inch seamless tubing. With 65 fire tubes it should steam well. Rumor has it the main copper tube "fell off the back of the sky tower rain water plumbing", or something? **Photo A**

Ron Copeland had some interesting offerings. One is a collectable Glow-plug model outboard motor, being a "KB Allyn" from USA. Ron did a trade as a youngster swapping a "crystal set" for the engine. Ron also

showed a very collectable ESL #1262 4v d.c. Electric motor of about 1910-20, complete with original box.

Photos B & C

Murray Lane has made some ancillary parts for his Hardinge lathe. This time, a suitable tray of "Bakelight" (?) for the 5C collets, an acrylic guard, a light bracket and a quick-change tool holder with a razor blade in it. The latter was used to slice a rubber "rope" into "O"

rings for the lathe. **Photos D & E**

A discussion about the clear acrylic guard pointed out that acrylic is better than polycarb, even though the poly is bullet proof, it "crazes" when exposed to soluble oil and some other solvents.

A BIG loco frame for a 5inch "K" with lots of other work done, contact Bill Parker if you are interested in buying a serious piece of work. **Photo F**

Another BIG item was John Olsens hand driven water pump for his Launch. It is 1.5inch bore and 5inch stroke, so it will deliver a fair bit of water even though it's single acting. **Photo G**

Straight out of star wars is a hand held molten metal gun! A friend bought one which wasn't working very well so Graeme Murray made him a new one. It sprays molten zinc onto any surface including wood, plastic etc. Melting point 419.53 degrees c, according to wiki. **Photo H**

One BIG cylinder from Mike Oranges next Phantom.... maybe a tank loco, says Mike. **Photo I**

A change of scale for a breather is Greg Burrows 2.5inch(?) gauge Bagnall loco. **Photo J**

Some nice Pocket watches brought in by Peter Tomkies.

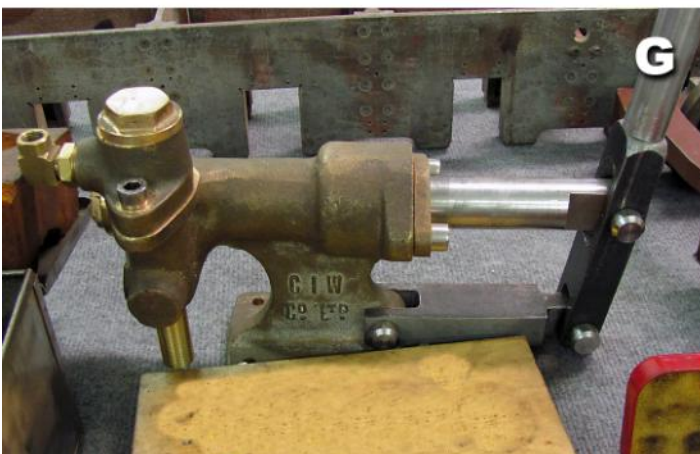
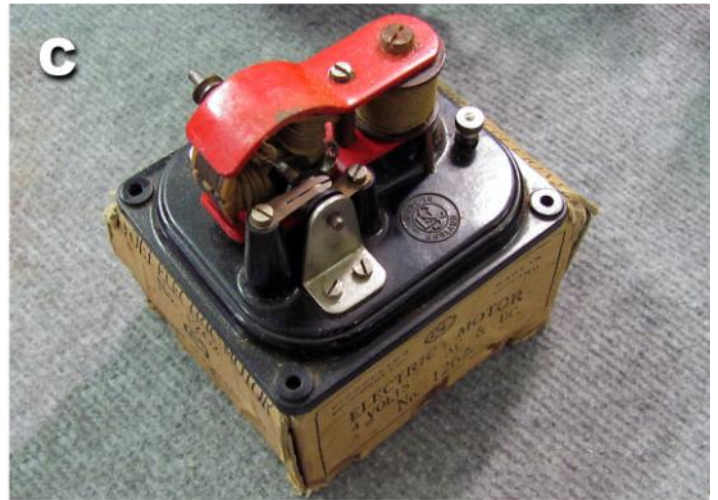
Mike Jack CNC'd a couple of "Turners Cubes", small enough to go on a bracelet. **Photo K**

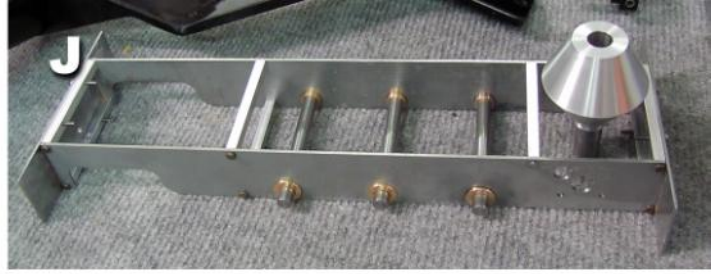
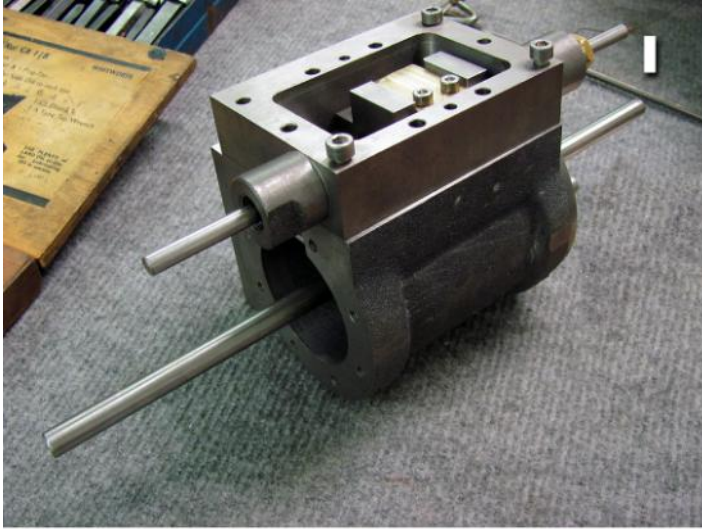
A lot of gear was on sale by Mark Richardson, contact him if you need any tools etc, he may just have the bit you need.

Tony Laurence was thanked for organising the concrete for the guard rail at the station, as well as the teams that prepared the ground, boxing etc. under his and Tim Robinsons guidance.

The nights talk was an eye opening account of Michael Cryns journey through Europe based on a book he had read. Town clocks dating back to 1650 and other horological wonders including a clock where one of the gears does one revolution in four thousand years. Michael recommends the book called "The History of Clocks and Watches" by Eric Bruton.

Rag.





Classifieds

FOR SALE

~

Workshop machinery for sale

Grey Myford Super 7 lathe in very good condition with standard Myford attachments including 3 and 4 jaw chucks face plate, driving dog. Fixed centers, rot centre, several driving centers, rear tool post, spare change wheels and quadrant, wood turning rest, tool holders, and drill chuck. \$3000. **Photo (i)**

Emco FB-2 6 speed geared head mill in very good condition with 2MT spindle nose on makers stand. Clarkson auto chuck and collets, Emco machine vice. 4 inch dividing head with tailstock. Emco angle plate. \$2500. **Photo (ii)**

Tanner band saw with several blades. \$150. **Photo (iii)**

Old grinder with drawer of assorted buffs. \$40.

6 mm Boley lathe with collets. \$650.

Contact Murray Lane, Ph 5348396

~

Tom Senior M1 horizontal and vertical milling machine with vertical head attachment, auto feed table, various cutters including side and face cutters, slitting saws.

Swiveling machine vise, Clarkson type cutter holders 2MT for vertical head, 3MT for horizontal spindle, misc end mills all in good condition. \$2500 o.n.o. Buyer Removes

Phone Jim Yearn 2980722

~

A 6 mm Lorch jewelers lathe mounted on a board with electronic speed control and two tailstocks.

There is AC motor drive which can drive the lathe or milling head via countershaft.

Comes with compound slides, vertical slide, graver rest, and milling head and a direct indexing plate, 54 to 360 and 38-300 divisions.

There is a 3 jaw chuck, 31 standard collets, 6 special collets, 2 shellac collets, 5 external collets. plus box of other lathe fittings. \$1300.

Contact Murray Lane, Ph 5348396

~

Castings, frame and buffer angle steel and drawings for Jubilee 2-6-4T 3 1/2" gauge locomotive by Reeves. Designed by Martin Evans.

Book "Building the Allchin" by W J Hughes.

For further details please contact Ian Davis.

Phone 09 2389796.

Mobile 0274 839008.

E-mail: ian.hazel.davis@xtra.co.nz

Latest in Engineering

Extracts from The Model Engineer and Electrician of March 30, 1911.

Wireless Without Coils

According to the *Electrical Review*, a new system of wireless telegraphy and telephony has been invented by Dr. R. Goldschmidt, of the Darmstadt Technical High School, which makes use of a specially constructed generator which produces the necessary electrical oscillations directly, and without sparks or arcs. This high-frequency machine delivers alternating currents whose direction is declared to change over 100,000 times per second, and as soon as the telegraph key is touched the waves pass direct into the transmitting network. It is claimed that the system places no limit upon the distance over which messages can be sent, and that its working is independent of the daytime and the conditions of the weather. Tests with a generator of this type have been in progress since April last year at a radio-station near Berlin. The machine gives in the form of electric waves an output corresponding to 17 horse-power, and requires for this a generator of about 21 horse-power, showing an efficiency of 80 per cent. According to the inventor, there is no difficulty in the way of constructing machines of 80 horse-power, 100 horse-power, or even greater power.

The Commercial Marine Motor

Writing in the *Nautcial Magazine*, Mr. W. O. Horsnail says that, until recently, the oil engine has only been considered applicable to small commercial vessels, and its use has been largely confined to auxiliary purposes, at any rate as concerns the larger powers. A revolutionary change in this opinion is now taking place, and we find marine oil engines up to 1,200 h.-p. in actual service, whilst a vessel of 8,000 tons with oil engines of 3,000 h.-p. is being built. This development is sufficiently startling, but we have every reason to expect the construction of much larger powers in the near future, as single-cylinder engines of 2,000 h.-p. are being experimented with, and oil engines are said to be in course of construction for all three battleships of the super-*Dreadnought* type.

All these engines work upon what is known as the "Diesel" principle, although the original Diesel engine has been considerably modified to suit the large powers and flexibility required afloat.

Around the Clubs

April 2011

Steamers and Dreamers - Manukau - Oct 2010 & Jan 2011

Proud recipients of a Manukau City Appreciation Award, well done! Trip to Havelock North track with a photo of the new Taupo bypass bridge at Wairaki. Good article on Ian Sharp's grand tour which included running the Poppy Marathon in The Somme. Well worth a read. Some good photos too. For sale is a 7 ¼" gauge diesel loco, a van and some other bits. End of year function held at Norm and Richard's facility at Patamahoe. New retainer wall. New ride cars finished by Jim McLean and Bob Wines, the details and specs are detailed. Article and photos of the Mana Ariki meeting.

Model Torque - Napier - Oct & Nov 2010, Jan & 2011.

The club to celebrate their 50th anniversary in 2012. Successful 24 hour run which raised money to help CCS children. A separate 7 page supplement of coloured photos shows all the action and details the locos taking part. A DVD of the 24 hour run is available from the Club. Article on Nigel Weber and his replica steam bike. Open Weekend on the 19th and 20th March.

Con Rod - Otago - Nov & Dec 2010, Jan & Feb 2011.

The Club to celebrate their 75th Anniversary on the 19-20th March, Congratulations! Part three of the building of the Signal Hill Railway, a very sad end indeed. Write up on the visit to ChCh, great time had by all except for the pesky ducks and the odd earthquake [from the first event]. Story on the Ocean Beach Railway and they celebrate their 50th Birthday this year. Club visit to Squirrel Valley Railway, sounds like a very interesting private garden railway. The outside track is in 7 ¼" gauge and the inner one is G gauge. All built on 5107 square metres of land.

Mailship - Auckland - Oct, Nov & Dec 2010, Jan & Feb 2011.

Report on a very large model boat club in the Netherlands and a boat display put on at Edmond Hillary Retirement Village, Remuera. Also a visit to Waihi.

Great cover photo of Philip Warren's armada of Royal Navy warships made out of Matchsticks and wooden match boxes. Club visit to Harwera.

Cover photo of HMT Resolve, 46" long and 9" beam. Visit to the Armistice Day show in Cambridge. Visit to Ian Donald's workshop and a couple of photos from Harwera.

Grey Funnel Regatta to be held at Highbrook on the 27th March. Photos of two motorbikes made out of watch parts and a top secret plane being launched from an aircraft carrier.

Northern Views - Whangarei - Nov/Dec 2010, Jan/Feb 2011.

Very neat signal box built. Sad story about locos in South Africa being cut up for scrap after being attacked by armed scrap thieves. Much work on the steaming bay. Enormous model of the Sciotoville bridge in G gauge. A form to pre register to attend the 2012 International Convention on the 6th to 9th Jan 2012. Some great photos of around the site and an article about a visit to the Mana Ariki Marae.

Blast Pipe, Nov & Dec 2010, Feb 2011.

Cover photos of a very nice Rob Roy, a model generating set and a 2" scale Minnie traction engine. A

whole lot of good photos and articles on club activities and visits to other clubs, a good read.

Expansion Link - Hamilton - Nov/Dec 2010, Jan 2011.

Plenty of Birthday Party bookings. Proposed amendments to the Club rules, mostly concerning limiting Life Members to two at any one time and the age of junior members.

Photo of concrete laying around the station, sounds familiar. Photos also of Grant Alexander's new electric loco and Diana at the opening of the Glenbrook Extension.

Some comments on what MEANZ means in practice. More photos of the new Chinese locos, two RES excursions and a fire that shut down the NIMT line.

Engine Booster - Los Angeles - Oct, Nov & Dec 2010, Jan & Feb 2011.

It is Halloween time again and LALSRM have really gone to town. Over 10 nights they gave over 9000 rides on the ghost trains through the fog and all the scary things. The setup took 8 weeks to install and 3 weeks to dismantle. Really quite brilliant, the coloured photos are a must see, particularly liked the talking tree greeting people. Article on one of Walt Disney's favourite carriages acquired by Disney Barn. Loco. For sale, a 3 1/2 " gauge model of a GWR 0-6-0-T, looks good from the photo. Also for sale are some commercially built engines and trucks. Photos too of the holiday party.

The Generator - Palmerston North - Sept/Oct/Nov 2010.

Cover photos of an Atkinson Differential Engine [built to get round Ottos patent] A 1" X 2" inverted engine and an overhauled 3 1/2" Ab loco. The three Letters from England are always worth reading, he covers a whole range of subjects including his stint as boiler inspector. It seems now in the UK steam valves must be of the captive type. The story about Railroading in the Andes is a good read too, we think this country is difficult for trains but they have more problems. If you wondered how they clear slips on the railway, the article by Doug Chambers has the answer. The same author has an article on the railway artist Terence Cuneo, very interesting too. A number of photos of track activities and of visits to other tracks.

The Generator - Palmerston North - Jan & Feb 2011.

Two more cover photos covering featured models. One of them is a full size Warrick Tricar rebuilt from salvaged parts the other is the crankshaft for a 3 1/2" gauge 3 cylinder Shay. Turned from the solid, the article tells how it was done. Another two Letters from England cover all manner of subjects including building the Wellington bomber. Photo and story about a Jowett Jupier. A Hunslet visits Whanganui and a visit to Hutt Valley Open Weekend.

Wheels and Floats - Tauranga - Oct/Nov & Nov/Dec 2010. Dec 2010/ Jan, Feb & March 2011.

The story of the Southland Railway and building an electric EO loco. Some musings from their Roving Reporter. The story of the German S-Boats, known as E-boats by the Allies. One of these ended up with 3 Deltic engines fitted. Trouble with idiots putting rocks on the track and a 3 boiler loco. Also the story of Bullied's Leader Class articulated loco. Some great Club photos.

Blowdown - Kapiti - Summer 2010.

News of the clubs running. The Editor visited Melbourne's Diamond Valley 7 1/4" Railway. Judging by the coloured photos and the article it is a great setup

The Keirunga Park Platform - Havelock North - Summer 2010.

Article and photos on the Labour weekend event at the track, everyone seems to be enjoying themselves. A couple of good articles too. One on a very small petrol engine and one on building a model Spitfire.

Leading Points - Thames - Spring & Summer 2011.

Thames Heritage Week is to be held between the 5th and 13th March. Story and pictures of the Graham's Town and Tararu Steam Tram. Club pictures and image of a Price type CB loco built in Thames in 1924.

The cover lists most of the railways in NZ. The advertising stunt that went wrong, the staged collision, head on, of two trains in Texas. A bit of history about the start of the Thames Small Gauge Railway.

Wanganui - Mixed Traffic and Railscene - Nov 2010, Jan & Feb 2011.

Members travel on the steam hauled Overlander from Fielding to Taihape. A chart showing NZR colours. The Great Manawatu Steam Fair to be held at Fielding 19th and 20th March..

Canterbury Tales - Christchurch - Aug 2010 to Feb 2011.

According to their website the Club track has not suffered much damage fortunately. They were able to run a free day for the earthquake victims, nice thought to cheer everyone up a bit after a terrible event. Very sad to see so much damage and loss of life over such a large area. Our thoughts are with you all.

Southern Rails`n`Sails - Dec 2010 to March 2011.

The Great Little Train Show a great success. An article on making cast iron piston rings and some experience using PTFE rings. How to build a linisher and some good photos.

Big Wheel News - Victoria - Nov/Dec 2010. Jan/Feb 2011

Visit to DVR and to Wagga Wagga. Some photos from the MSME Exhibition, some great models. The rebuild of a Maisie in 3 ½" gauge. Some track modifications.

MELSA Newsletter - Maryborough , Dec 2010.

The Mary Poppins Festival a great success again, some of the proceeds going to local charities. Photos all sorts of great models and a full size Stanley Steamer.

The Narrow Gauge - Adelaide ,

Photos and articles of their single gauge, ground level track. They run some very impressive locos, the cover picture is of a very nice Garrett pulling a passenger truck and a rake of scale goods wagons.

The Nelson Society of Model Engineers - Jan 2011.

Visit from a ChCh member with his loco 'Alaska'. Excitement on the boat pond. Visit to the Vintage Car Club with all sorts of old cars. Visit from the Nelson Brass Band. An electric loco for sale. Steam and Cinders Event to be held in Nelson at Easter.

Slipstream - Auckland Model Aero Club - Oct/Nov/Dec 2010 & Jan/Feb 2011.

A great newsletter in booklet form which covers all manner of model planes and how to fly them.

Alan E