

Number 597

December
2014

The MICROMETER

AUCKLAND SOCIETY OF MODEL ENGINEERS INCORPORATED

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REGISTERED NEW ZEALAND PUBLICATION

Locomotive No 507

MOTAT's highly polished ex-PWD Class L 2-4-0T loco seen at GVR's Vintage Festival, March 2013.





Train Roster

Date	Electric Driver	Electric Driver	Steam Driver	Train Controller	Station / Guard	Station / Guard	Station / Guard	
7-Dec-14	D Moffat	M Moore	Voluntary	<u>D Russell</u>	A Pritchard	M Richardson	R Stratton*	
14-Dec-14	P Moy	R Reichardt	Voluntary	<u>G Wills</u>	K Ryan	A Shirley	R Street*	
21-Dec-14	P Woodford	B Aickin	Voluntary	<u>T Lawrence</u>	P Tomkies*	D Addis	J Burnett	
28-Dec-14	-----	Xmas / New Year Break - No Roster in Operation - Voluntary if you wish					-----	
4-Jan-15	-----	Xmas / New Year Break - No Roster in Operation - Voluntary if you wish					-----	
11-Jan-15	I Ashley	A.Bailey	Voluntary	<u>T Robinson</u>	J Clarke	R Copeland	R Crook*	
18-Jan-15	G Beazley	D Booth	Voluntary	<u>G Anderson</u>	J Davies	G Dickey	A Foster*	
25-Jan-15	B Cotton	P Dowdeswell	Voluntary	<u>D Russell</u>	G Healy	P Jones*	D Leybourne	
1-Feb-15	M Granger	M Hollis	Voluntary	<u>G Wills</u>	M Luxton*	H Martin	C Mitchell	
8-Feb-15	D Housley	J Lankow	Voluntary	<u>D Black</u>	G Murray	J Olsen*	A Pritchard	
15-Feb-15	T Leys	D Moffatt	Voluntary	<u>T Lawrence</u>	M Richardson	K Ryan*	A Shirley	
22-Feb-15	M Moore	P Moy	Voluntary	<u>S Meikle</u>	R Stratton	R Street*	P Tomkies	

Bold and Underlined Name:

This is the designated **Train Controller**, i.e. the person in overall control of all operations for the day

Bold with Asterisk* Name:

This is the designated Stationmaster, i.e. the person responsible for activities in the station area.

The Stationmaster is also responsible to account for the day's takings.

President's Report

Work on the Track & Trolley project is continuing with preparation work done on the girder bridge on the 8th & 22nd November ready for the big working bee on the 29th November. Grant Anderson and I are back on welding track during the week when the weather permits.

The 2nd of December is the AGM. Notice for the ASME Annual General Meeting was in the November Micrometer.

The committee is in need of some more committee members. If you can help please let the secretary know.

Timothy Robinson

President

23 November

AUCKLAND SOCIETY of MODEL ENGINEERS INC.

NOMINATION FORM Dec 2014 - Nov 2015

		Nominee	Nominated By:	Seconded By:	Accepted
OFFICERS					
President					
Vice President					
Secretary					
Treasurer					
Editor					
Librarian					
APPOINTEE					
General Manager					
COMMITTEE					
Member	1				
Member	2				
Member	3				
Member	4				
Member	5				
Member	6				
Member	7				
Member	8				
Member	9				

Club Calendar

Tuesday December 2	Annual General Meeting (7.35 p.m.)
Saturday December 6	ASME Christmas Function (11.30 a.m.)
Tuesday December 9	Committee Meeting (7.30 p.m.)

Don't forget : ASME – Christmas Function

Date:	Saturday 6 th December 2014
Time:	11:30am till 4:00pm
Where:	JC Ryder Cinema 177 Riversdale Rd Avondale

And now a bit of fun for the upcoming festive season:

Common Tools Explained

To the uninitiated, the workshop can be an intimidating place, full of tools you may not know what to do with. To help, here's a helpful explanation of common tools and their uses.

DRILL PRESS:

A tall upright machine useful for suddenly snatching flat metal bar stock out of your hands so that it smacks you in the chest and flings your beer across the room, denting the freshly-painted vertical stabilizer which you had carefully set in the corner where nothing could get to it.

WIRE WHEEL:

Cleans paint off bolts and then throws them somewhere under the workbench with the speed of light . Also removes fingerprints and hard-earned cleco calluses from fingers in about the time it takes you to say, "Oh sh*t!"

ELECTRIC HAND DRILL:

Normally used for spinning pop rivets in their holes until you die of old age.

SKILL SAW:

A portable cutting tool used to make studs too short.

PLIERS:

Used to round off bolt heads. Sometimes used in the creation of blood-blisters.

BELT SANDER:

An electric sanding tool commonly used to convert minor touch-up jobs into major refinishing jobs. crooked, unpredictable motion, and the more you attempt to influence its course, the more dismal your future becomes.

(More another day...

Track and Trolley Project

Working Bee Saturday November 8. Pictures by Greville, explanations (sort of) by the editor.

The purpose of the working bee was to dig some holes for new piles at the ends of the girder bridge in preparation for some major modifications thereto.

Tony turned up with a little digger with a drilling auger attached.

A short time later, a truck turned up with a cubic metre or three of builders mix and several bags of cement. To get these materials to the work site proved to be somewhat involved: they were deposited at the loading bay in the carpark and thereafter had to be conveyed by a somewhat circuitous route (by rail, of course!) up to the girder bridge.

Mike is preparing to shunt a work trolley onto the main line, assisted by Grant and Yours Truly (mostly obscured). Two trolleys were used, and once they were on the main line, the “points” had to be switched to allow the trolleys to get to the loading area.



Here the builders mix had to be shovelled into a wheelbarrow, which was then pushed all of 2 or 3 metres under the trestle bridge where the contents could then be unloaded into the work trolleys. All very labour intensive!



Mike loads a trolley, while an empty waits behind. When loaded, the trolleys were pushed manually up to the girder bridge via the long tunnel, where some more shunting got them close enough to the dump site to be unloaded easily.

This is the hole that Tony built — well one of them — complete with reinforcing.



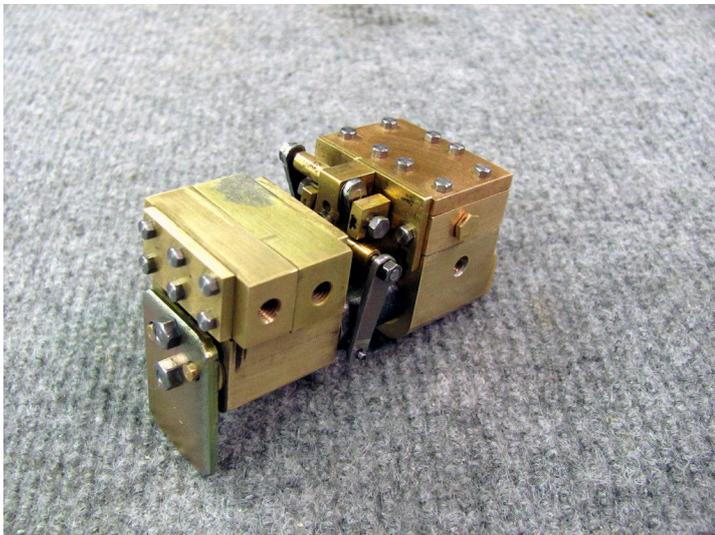
Getting down to work...

Tony appears to be closely examining the hole he has just made — either that or perhaps he's dropped his cell-phone in it!

Bits and Pieces November 4 2014

Conducted by Greg Burrows, report by Greville Wills, photos by Dave Russell

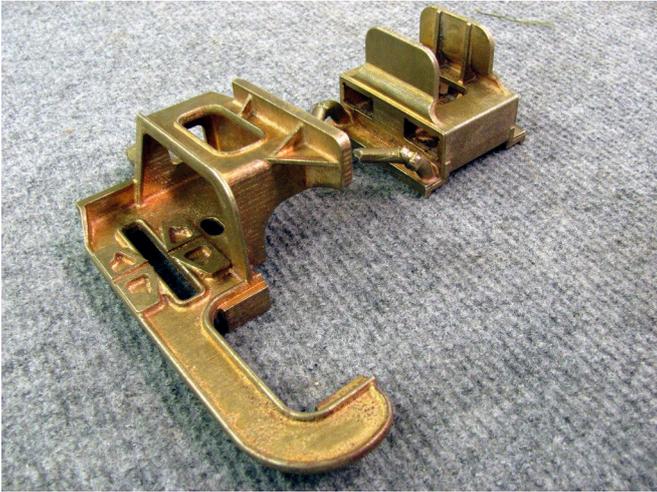
Graeme Murray had brought in some plastic pieces that he had printed on his home 3D printer. They were of quite good quality, Graeme did have a problem with one of the parts as the printer had interpreted his CAD file wrongly and had printed some extra stuff that was not needed (item at right in photo).



John Lankow has built a fine little duplex pump based on a design published in *Engineering in Miniature*, John says there were a lot more parts to make than he expected. Greg commented how these little pumps work so much better than the Stuart single acting type.

Mike Banks brought in the headstock stop attachment he has made for his lathe and explained how it was easy to fit and remove.





Mike Jack has been putting his new Lost Wax producing 3D printer through its paces and has produced a couple of fine motion frame castings for his replica prototype locomotive. These are a fine job and Mike explained that as the casting was formed in a vacuum all he had to do now was convince the foundry that they needed a vacuum flask big enough to cast his cylinders.

Dave Russell is doing a rebuild on the “Maid of Kent” originally built by the late Peter Swager and completed in 1982, the locomotive was a regular passenger hauler on the club track and was in need of some TLC. Dave explained how when the water pump piston was removed the leather cup washer fell out in about a dozen pieces, Now you can’t buy ½” leather pump washers easily so Dave got on to Google and found out how to make them, the tool is shown in the inset.



Editor’s Note:

Owing to an attack of Arduino-itis (see Bits and Pieces in November’s Micrometer), our photographer missed getting pictures of some of the exhibits that were on the Bits and Pieces table.

These were:

1. Graeme Quayle brought in a model steam engine that he has been asked to fix up. It looked like it was a replica of a Marklin Kit, the flywheel was loose on the crankshaft and it had problems with the pump and solder joints in the wrong place.
2. John Olsen brought along some pieces from the hull of his steam launch he is building. The hull is made from cedar that has been fibreglassed and the deck is a sandwich of high density foam and veneer all epoxied together. John also had his capillary feed lubricators for the launch steam engine. The vessel is 30’ long with a 6’ beam, quite a large trailer boat.
3. Peter Woodford has been busy working on his wife’s car and he discovered that his trusty floor jack was not long enough to reach under to the jacking point while still leaving the handle upright enough to use. So in true engineer fashion Peter went out and bought a cheap 3 ton jack that was still too short and proceeded to lengthen it, the finished job is quite hard to tell were it has had the extra bit welded in.
4. This month Greg Burrows brought in the whistle for his 7-1/4” gauge locomotive. The whistle is made to the design of some original drawings from NZR that nearly ended up in the rubbish but were saved by a younger Greg. The whistle is a 5 note item and the full size was about 6-1/2” diameter, Greg had CNC’d out the chambers.

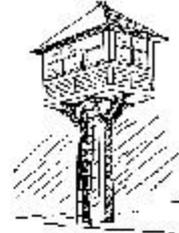
Classified ad:



AUSTRALIAN ASSOCIATION OF
LIVE STEAMERS



The 59th Annual AALS
Easter Convention.



Will be hosted by the

“Penfield Model Engineers Society Inc.”

From Thursday the 2nd to Monday the 6th of April 2015

At the Penfield Park Miniature Railway

Woomera Avenue

EDINBURGH S.A. 5011

Invitation

And

Information



2015 Annual AALS Easter Convention
Penfield 2015

If anyone is interested, further information is available from the editor .