

Number 645

May  
2019

# The MICROMETER

AUCKLAND SOCIETY OF MODEL ENGINEERS INCORPORATED

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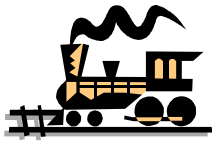
REGISTERED NEW ZEALAND PUBLICATION

## **Big Boy is (coming) Back**

A photo of UP4014 at Pomona (Los Angeles) in 2012. See p4.

Photo: Grant Anderson





# Train Roster

	Electric	Electric	Steam	Train	Station /	Station /	
Date	Driver	Driver	Driver	Controller	Guard	Guard	
<b>5-May-19</b>	R Reichardt	P Woodford	Voluntary	<b><u>B Aickin</u></b>	<b>R Stratton*</b>	M Vickers	
<b>12-May-19</b>	I Ashley	A Bailey	Voluntary	<b><u>P Dowdeswell</u></b>	<b>P Tomkies*</b>	D Vaughan	
<b>19-May-19</b>	G Beazley	M Granger	Voluntary	<b><u>T Lawrence</u></b>	<b>R Crook*</b>	S Wilson	
<b>26-May-19</b>	M Hollis	D Housley	Voluntary	<b><u>S Meikle</u></b>	<b>K Ryan*</b>	D Beecher	
<b>2-Jun-19</b>	J Lankow	M Plant	Voluntary	<b><u>T Robinson</u></b>	<b>B Matchett*</b>	L Brown	
<b>9-Jun-19</b>	M Moore	P Moy	Voluntary	<b><u>G Anderson</u></b>	<b>R Souter*</b>	D Vaughan	
<b>16-Jun-19</b>	R Reichardt	A Shirley	Voluntary	<b><u>D Russell</u></b>	<b>A Stratton*</b>	M Vickers	
<b>23-Jun-19</b>	P Woodford	I Ashley	Voluntary	<b><u>G Wills</u></b>	<b>D Wilson*</b>	D Beecher	
<b>30-Jun-19</b>	A Bailey	G Beazley	Voluntary	<b><u>B Aickin</u></b>	<b>R Crook*</b>	S Wilson	

**Bold and Underlined** Name = **Train Controller**, i.e. the person in overall control of all operations for the day

**Bold with Asterisked\*** Name = **Stationmaster**, i.e. the person responsible for activities in the station area and for the day's takings.

## **Please Note:**

If for some reason you are unable to attend on your rostered date, you are respectfully reminded that it is **your** responsibility to find a replacement member to fill the gap – please don't let the rest of the team for the day be left short-handed. **Note: the Train Controllers for both affected days must be informed of the swap in advance. It is the responsibility of the person who initiated the swap to do this.**

The details of the swap should be noted in the Run Book.

Also, please ensure the member you arrange a swap with is one who is rostered to undertake the same role to ensure we always have members with the appropriate training and experience on the day.

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## **MAY CALENDAR**

**Tuesday May 7th, 7.30pm** - General Meeting, ASME clubrooms. Dave Russell will be speaking about his recent visit to Malta

**Tuesday May 14th, 7.30pm** - Workshop Night, ASME clubrooms

**Tuesday May 21st, 7.30pm** - Committee Meeting, ASME clubrooms

**Coming Up** - 2019 NZR Day at Brayshaw Park, Blenheim. June 15th. See p8.

# Committee Comments

## Committee Comments – May 2019

The Dsa has had its final checking by President Timothy and is cleared for use on Sunday running. We are a little concerned about high current draw at very low speed/heavy loads, so best to use only one trolley until fully proven. Also make sure that if there is a derailment, that you stop immediately and sort it out.

We are pleased to advise that the renewal of ASME's Amusement Device Registration was finally issued by Worksafe on 29<sup>th</sup> March and received by ASME on 14<sup>th</sup> April. The new certificate is now posted in the Members Section of the ASME website. Application was made to Auckland Council for a renewed Permit to Operate on 18<sup>th</sup> April and we await inspection by AC officers which we understand from Manukau Live Steamers recent experience to have been upgraded to a more intensive examination than in the past.

The Library now has a number of newly bound magazine volumes, so check these out next time you are at a meeting – these include recent years' issues of Model Engineer, Model Engineers' Workshop, Live Steam, The Home Shop Machinist and Australian Model Engineering. There remain several gaps as we secure copies of back issues to complete volumes. See our Librarian Mark Luxton for more information or guidance for issuing you any volumes for reading as required. Thanks to Allan Stratton for the labourious task of sorting out all the old railway videos for the library – again see Mark should you wish to borrow these. Allan has provided a list of the videos he has catalogued - there are 69 titles in all, including topics of local interest, such as **Rimutaka Incline**, **Total Steam** and **Great New Zealand Railway Journeys**. Of overseas interest are a varied selection, from **The Restored Railways of Britain** and **Steam Trains of Australia** to **Tracks of the Beaver**, **A Canadian Rail Adventure**. Closer to home is **ASME Building of the Pond**! Something for everyone!

At the March committee meeting, the following appointments were made/confirmed to assist in the better management of the Society, as required under the Rules and Operating Code:

General Manager: Greville Wills

Safety Sub-Committee: Greville Wills, Dave Housley

Boiler Inspectors: Mike Banks, Mike Orange

Train Controllers: Dave Russell, Greville Wills, Grant Anderson, Tony Lawrence, Timothy Robinson, David Black, Scott Meikle, Bob Aickin, Phillip Dowdeswell.

Rolling Stock Inspectors: Dave Housley, Mike Banks.

Driver Training Officers: Greville Wills, David Black, Dave Housley.

Thanks to all those concerned in taking on these important roles.

A letter will be sent to Auckland Council regarding the issues that have arisen over the reduction of car parking spaces as a result of the carpark "upgrade" last December, with a request that more spaces are provided before next season's daylight saving period.



Grant Anderson has suggested that members might be interested in the imminent christening (after a 2 year intensive overhaul) of Union Pacific Big Boy No 4014 at Cheyenne on 4th May 2019 (Wyoming, USA time) in preparation for its use in "Spike 150", the upcoming 150th year celebration of the completion of the Transcontinental Railroad. More information can be found at:

<https://www.up.com/heritage/steam/schedule/index.htm?fbclid=IwAR2coRh0OWoM7cFU59t24wQgcPmHTFNlIX57X-gv1nly8FtPbl90tiiQomM>

and

<https://spike150.org/?fbclid=IwAR15FJyU3tIYJehVTv04VP4qEylMYc5rToSSYDT48MoiNGWIXQlhPv0umGc>

This picture of 4014 was taken by Grant at Pomona (Los Angeles) in 2012. The small figure standing beside the loco's driving wheels is none other than Grant's partner Jan!





## Bits and Pieces, April 2nd 2019

Presented by Michael Cryns, Report and Pictures by Dave Russell

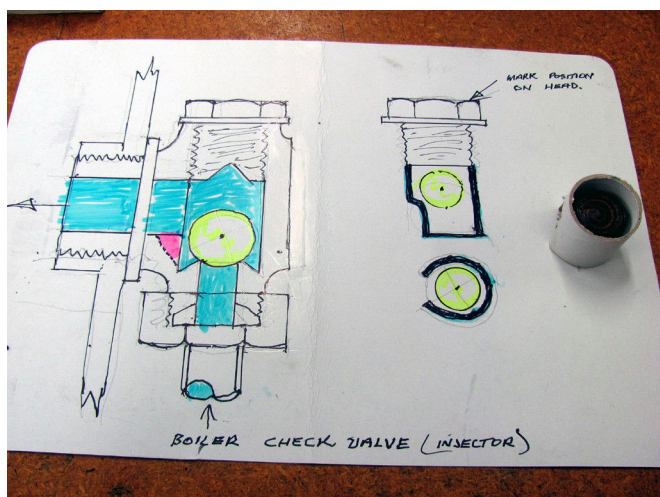
**Tony Lawrence** is using this apparatus to join a large hammer drill to a diamond tipped core drill. Water feeds via this down the centre of the core drill to cool and clear the work surface. The job is removing the corroded bolts from the club track trestle bridge and replacing with new stainless ones.



**Grant Anderson** managed to get the tipped hole-saw on the left to help with the coring job he was doing on the piece of carbon PTFE that he is using to make new rings for his Phantom locomotive. He says it works better than the standard hole saw on the right.



Grant also removed the superheaters from his Beejax to clear out the flues that had blocked with ash from the Welsh coal we are using. Grant says the engine seems to run better now without the superheaters.

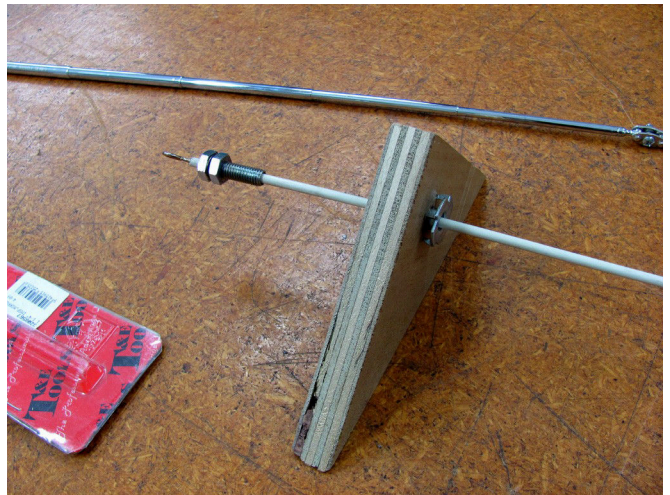


**Mike Banks** and visitor Bruce Piggott had some more advice on boiler feed clack valves to be used with injectors. After much testing they have managed to get Mike's injectors working as they should: it seems the problem was with the clacks stopping the feed water when the ball moved off its seat and into the water exit hole. Mike has overcome this by carefully machining away the portion marked in pink in the drawing. Another method is to fit a sleeve that holds the ball away from the delivery hole when operating.





We have seen this tapping stand of **Greg Burrows** before; it has now been modified to take ER16 collets and the holder for the spare collets was made on a 3D printer. The collet chuck and collets are available from China at reasonable cost.



**Murray Hollis** had the need to fit some Tee Nuts to the back of a large fitted plywood board: the position could only be accessed from the side and out of reach to hold the nut. He came up with this solution using a piece of curtain wire with some adaptors for the ends, and lots of patience.

This “slightly rusted” bolt belongs to **Bob Aickin**. It is from the bottom plate of the wall in his home garage. Probably just as well Bob is doing some work on the garage and will be replacing these.

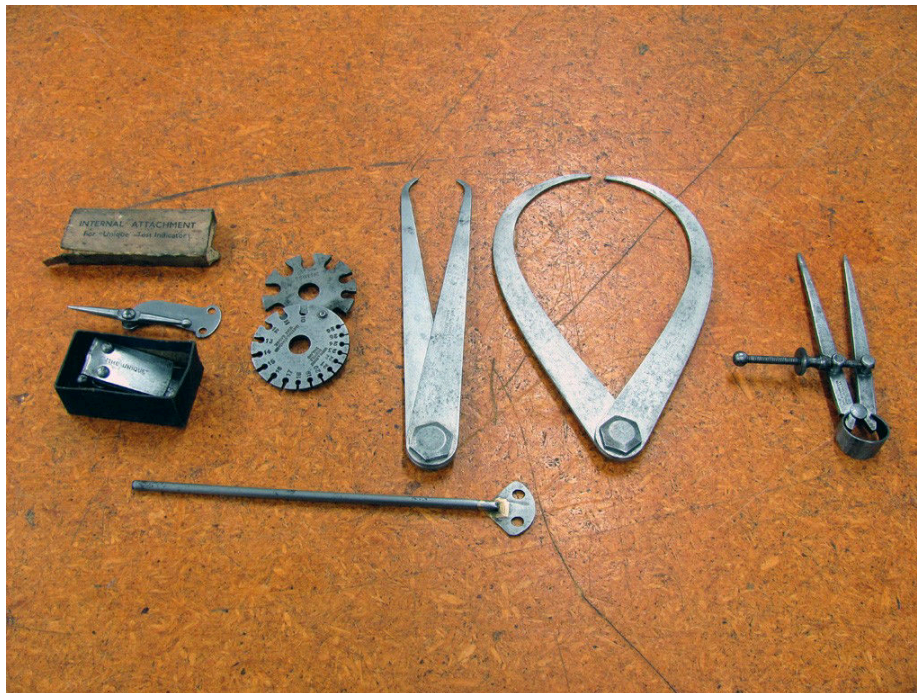






This neat little bottle jack was made by **Peter Woodford**. He has just finished making the top pieces after starting it about 35 years ago. It is intended for use in setting up jobs on the milling machine.

**Michael Cryns**, who conducted the Bits and Pieces, is doing further refurbishment on the Auckland Art Gallery clock. He brought in some parts; one had a broken grub screw stuck in it. Michael asked what is the best way to remove it and was pointed in Greg Burrows' direction. Greg said it could best be removed by spark eroding away the main body of the screw. Unfortunately, I have no photo of this item.



Lastly was a selection that I (Dave Russell) have acquired over the years and have recently been cleaning up and refurbishing.

Starting from the left is an early version of a dial gauge. It is called the "Unique" Test Indicator and comes with an adaptor for trueing internal holes, below is a holder for the gauge to attach to.

Next to the right is a Moore & Wright Imperial Standard Wire Gauge No. 1054.

The three set of callipers next are all made by the L.S. Starrett Co USA.



# 2019 NZR DAY



**MARLBOROUGH ASSOCIATED MODELLERS SOCIETY SHALL BE HOSTING THE 2019 NZR DAY, ON JUNE 15<sup>TH</sup> AT BRAYSHAW PARK, BLENHEIM.**

**A SPECIAL DAY FOR LIVE STEAMERS AND MODEL ENGINEERING OF NEW ZEALAND'S LOCOMOTIVES AND RAILWAYS. M.A.M.S. FEATURES 2.5", 3.5", 5" ON THE RAISED TRACK AND 5", 7.25" ON THE GROUND LEVEL TRACK. THERE IS A VERY LIMITED AMOUNT OF ROLLING STOCK AT M.A.M.S. SO IF POSSIBLY PLEASE BRING YOUR OWN DRIVER TROLLEYS.**

**CLUBROOMS WILL BE OPEN AROUND 8AM, WITH FAIRLY CASUAL RUNNING TIME 10AM-4PM. WE WILL POSSIBLY HAVE A BBQ AFTERWARDS. ALL ATTENDEES ARE WELCOME TO STAY FOR SUNDAYS GENERAL RUN DAY, OVERNIGHT STORAGE AVAILABLE.**



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