

# The MICROMETER

AUCKLAND SOCIETY OF MODEL ENGINEERS INCORPORATED

PO Box 14570, Panmure, Auckland 1072, NEW ZEALAND

Club House: Peterson Reserve, off Peterson Road, Mt Wellington, Auckland 1060

Number 683

October 2022

Telephone: 09 570 5286 Club Web Site: [www.asme.org.nz](http://www.asme.org.nz)

<b>President</b>	Mike Moore	09 443 6050
	e-mail address	president@asme.org.nz
<b>Secretary</b>	Dave Housley	09 576 3923
	e-mail address	info@asme.org.nz
<b>Editor</b>	David Black	09 235 2372
	e-mail address	editor@asme.org.nz



From the left, Dave Giles, Mike Banks and John Lankow  
They are witnessing the test of the 3.5" G part of the new points with John's "William" engine (built to replicate a NZR Ww class loco). The points are based on Tauranga MMEC's improved version of the "Holder" type points previous used at KPR (Havelock North).

## President's Report, October 2022

Warmer weather, daylight saving, and relaxed covid rules must mean summer is on the way and we can at last enjoy a relatively normal Christmas. The details of the club Xmas dinner are now confirmed so please book your place in accordance with the instructions in this newsletter.

The first set of points has now been produced by Dave Giles, with assistance from Grant Anderson and Mike Banks. It is hoped that these can be copied and installed as time and resources allow. Thanks to the team, and to Timothy Robinson who made the the jig table and undertook the early work of fabrication.

Sunday Running is proving more popular than ever, and I believe will continue to do so as the weather improves. A team of five is currently rostered on each Sunday, and this is the minimum possible to operate. Increasing this to six would mean, with the limited numbers of members we currently have on the roster, that the duties would occur too frequently. An extra helper or two would be appreciated, so could I please ask any members who have some spare time (and possibly friends and family) to come along and assist. This is not arduous and I am sure you will enjoy it.

The October GM is traditionally the club auction night, and I have already been asked by one member who keen to get rid of some s\*\*t, I mean contribute to the auction, and I am sure many of us feel the same, so start going through your collections for suitable items, and make sure you let Greville know whose they are or whether they are club donations.

With that in mind, just another reminder that December is the AGM and that we need nominations for the committee and for president. The requirements for these positions are not arduous or time consuming, and the more we have the easier it is for all, and it is a great way to contribute to the club.

All the best to you and your families and good modelling,

Cheers,

Mike Moore.

### ASME is an active member of MEANZ

Members should keep a lookout on the website too, [www.meanz.org.nz](http://www.meanz.org.nz). It is a good place to find other clubs.

When you are travelling, just like us, our friends nationwide always welcome visitors.

---

### **OCTOBER CALENDAR**

- |   |                                  |
|---|----------------------------------|
| <b><u>Tuesday October 4th, 7.30 pm</u></b>  | - General Meeting (Clubhouse)    |
| <b><u>Tuesday October 11th, 7.30 pm</u></b> | - Workshop Night, (Clubhouse)    |
| <b><u>Tuesday October 18th, 7.30 pm</u></b> | - Committee Meeting, (Clubhouse) |



# Train Roster

Date	ASME			DUTY ROSTER		
	Electric Driver	Electric Driver	Steam Driver	Train Controller	Station / Guard	Station / Guard
2-Oct-22	M Moore	R Reichardt	Voluntary	<b><u>D Russell</u></b>	<b>D Wilson*</b>	D Beecher
9-Oct-22	I Ashley	A Bailey	Voluntary	<b><u>G Wills</u></b>	<b>R Crook*</b>	B Cooper
16-Oct-22	M Hollis	D Housley	Voluntary	<b><u>B Aickin</u></b>	<b>M Luxton*</b>	M Vickers
23-Oct-22	J Lankow	B Matchett	Voluntary	<b><u>D Black</u></b>	<b>R Souter*</b>	A Van Zon
30-Oct-22	M Plant	R Reichardt	Voluntary	<b><u>M Moore</u></b>	<b>K Ryan*</b>	R Shearer
6-Nov-22	I Ashley	M Hollis	Voluntary	<b><u>P Dowdeswell</u></b>	<b>D Beecher*</b>	C Whitiskie
13-Nov-22	D Housley	J Lankow	Voluntary	<b><u>T Lawrence</u></b>	<b>R Crook*</b>	D Wilson
20-Nov-22	M Moore	R Reichardt	Voluntary	<b><u>S Meikle</u></b>	<b>M Luxton*</b>	M Vickers
27-Nov-22	B Matchett	R Shearer	Voluntary	<b><u>T Robinson</u></b>	<b>R Souter*</b>	A Van Zon

**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.

The COVID traffic light system was discontinued as from 1159pm on 12/09/2022.

Notwithstanding the Government's changes, ASME is continuing to continue with some additional measures to help protect our members from the virus. Public running is continuing with some conditions.

### 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.** Also advise Bob Aickin who is keeping track of the number of duties each of us perform during the year.

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.

# Club Notices

The **AGM** is now only 2 months away.

Time to start thinking about nominations for the President and committee.

## Annual Auction

The ASME Annual Auction will be held at the October General Meeting in the clubrooms on Tuesday October 4th.

## Annual Luncheon at the Waipuna Hotel

The committee has booked the 19th of November for a buffet luncheon at Wellington's restaurant at the Waipuna Hotel, this is a Saturday meeting luncheon is set for 12:30 so arrival about 12:00 in the lounge bar would seem ideal for a mix and mingle. The cost, which is being subsidised by ASME, has been set at \$20.00 per person (members and partners) and payment to the ASME bank account below would confirm your placing;

## 02-0223-0078104-000

Please include luncheon in the particulars field, and your name in the reference field. Would members please pay early so the committee can give the restaurant accurate numbers of attendees.

At the last general meeting an enthusiastic show of hands for attending was given for this event. Time now to turn this into bookings.

## Future of ASME

Our railway continues to be extremely popular, but our membership is dwindling. Most members are retired and many of us at least entering the departure lounge.

Comparison with other similar groups with more young members reveals an important point of difference. ASME has no presence in social media.

What do members think about us starting a Facebook page? Is there anyone among us with the skills to establish it? This will be raised at the AGM, and should be actively discussed over the next couple of months.



Tony Lawrence views early work in the rebuilding of the retaining wall between the two trestle bridges

The completed works in August 2022.

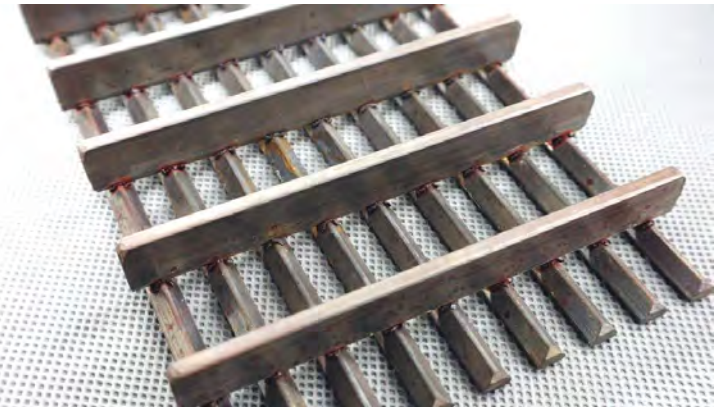


Bits and Pieces – 6th September 2022—Photos and report by Dave Russell.

1. Mike Moore brought in this file saw that he had picked up, included in the pack was quite a few blades, they are smaller in diameter than a coping saw blade.

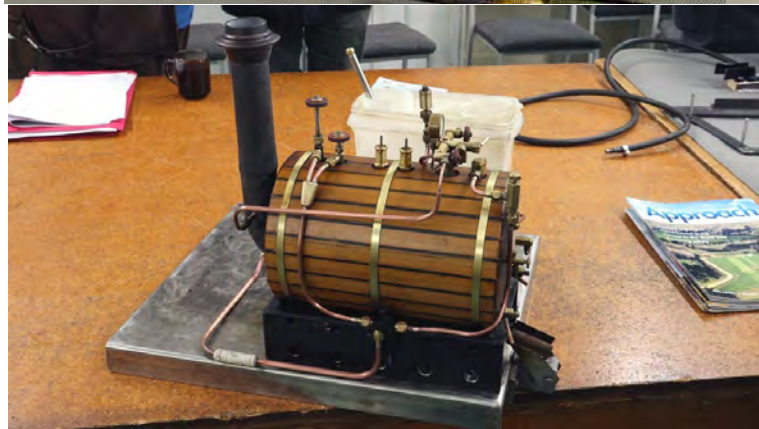


2. The club has acquired this star wheel dresser to tidy up the wheels on the club bench grinder. Donated by Mike Moore.

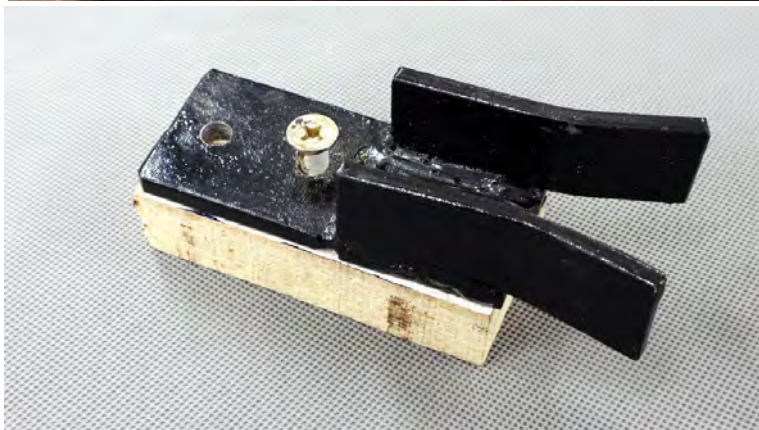


3. This Fire Grate has been cut from a commercially made "urinal filter screen", Grant Anderson has purchased it from a member of the Tauranga club for trial in his Phantom locomotive. Grant has had to add some spacers to his ash pan to lift the new grate to the same height as the original. The fusion welding of the stainless pieces is nice.

4. Mike Banks is constructing a new "spare" crank axle and wheel set for his King. He is using his trusty quartering jig as detailed in the past. Mike has done some serious homework on the latest Loctite products and their applications, he is using Loctite 680 on the joints of the axle with a 0.006" clearance as advised in the Loctite specs. After curing the joints are further secured with taper steel pins. Mike further explained his use of various spacing jigs when making connecting and coupling rods to suit the same spacing as the axle boxes on his loco.



5. This next item a saddle type test boiler is also from Mike Banks workshop, Mike fires this with a propane burner that he spent some time getting just right, the boiler is primarily used for testing injectors.



6. Greville has built a new guide piece for the sliding door on the basement annex, housing the new workshop room. Greville has also made a steaming up, compressed air blower that has interchangeable sized nozzles (No photo of this).



7. Always on to a goal to make his locomotives more efficient, Grant Anderson has been experimenting with different petticoat shapes, tapers and lengths on his Bee-jax loco. This led to quite a discussion on tapers, distances and clearances. I am sure we have not seen the last of this discussion.

8. Murray Hollis has been making great progress on his garden scale locomotive, maybe at the next meeting he will have it running on a piece of track, tonight he had a set of wheels and axles.



9. It was good to catch up with Bruce Cooper back at the clubrooms, Bruce has been busy at home working in the workshop and brought in these photos of his assembly / disassembly rig, it uses two standard scissor jacks to adjust the height and the rig also has bearings on the base to test run the motion.





## **Workshop night** (No photos this month)

Last month's workshop night was well attended with eight members attending and one visitor who was Justin Parker from Manukau Live steamers who has taken over MBM engineering supplies from his father Bill who passed away . The members present were Mike Banks, Les Brown, Roger Shearer, Tim Robinson, Mike Jack, Martin Plant, Murray Hollis and myself Dave Housley.

First up was Justin, he showed off a Bunyip cylinder casting he has brought in from overseas. The bunyip is a 7 1/4" sugar cane locomotive and quite a heavy model. He also displayed a radius rod machined to 2nd op stage and a return crank.

Next was Mike Banks with newly assembled crank for his main driving wheels to his King . He is greatly impressed with the use of Loctite for making this assembly more simple and if made to the direction of the Loctite "good book" is as strong as that of press fit, if not greater. He has been working on the prototype points for the track and had to manufacture various fittings and brackets for the actuation and gave us a brief run down on the project

Tim Robinson brought in a photo of an armature he is currently working on a gave us a brief rundown of what was entailed

Mike Jack brought in a cylinder to a British Rail style cast in white bronze, this will have cast iron liners put in it and Mike explained that one must be mindful as the thermal coefficient of these two metals differ choice of shrink fit must be worked out carefully to ensure the liners don't move in service.

Martin Plant did not present any material exhibits but had brought in prints of the 3D models for his frames for his Brittania tender . He had modelled these up (from drawings he had bought) to check the assembly for errors before having any laser cutting done which proved a worthwhile exercise as there were a few. There were photos also of the investment patterns he had 3D printed in PLA of the style of cylinder which Mike Jack had brought in.

Murray Hollis showed a tap he had made from a screw for tapping 92 TPI 00 gauge hole in a printed circuit board. He brought in his chassis for his garden gauge railway engine to enquire the best way to secure the cranks. The general consensus was to use taper pins.

As for myself I had one of my Beejax wheels that I shrunk the tyres on at the weekend. Club night brought up a mention of toolmakers buttons so I made a set from 20mm dia silver steel to demonstrate how to use them.

The answer to the what is from last month was the instrument is a Planar Gauge, which was set by slips and DTI to a given height and in turn set your tool height on mill or planning machine. Much the same function as the tool presetters you can now buy.

***Dave Housley***



## ASME is selling excess copies of the Workshop Practice series Books

*There is now a full set in the ASME Library.*

*Although they are being regularly reprinted no 49  
is the last new volume we have seen for some time*

*The committee has decided to sell remaining ASME  
stock at **NZD \$5 each***

***Most are sold—only a three left, these will be sold at the auction***

***Most can still be ordered from Tee Print at **GBP 7.95*****

<https://www.teepublishing.co.uk/books/workshop-practice-series/>