

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 650

October
2019

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REGISTERED NEW ZEALAND PUBLICATION

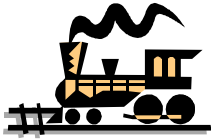
Steam tug William C. Daldy

Coal fired, this magnificent craft was built in Scotland in 1935 for the Auckland Harbour Board.

An afternoon excursion on the harbour is planned for the afternoon of Nov 2. ASME members are invited.

See page 12 for details.





Train Roster

Date	Electric Driver	Electric Driver	Steam Driver	Train Controller	Station / Guard	Station / Guard	
6-Oct-19	M Hollis	D Housley	Voluntary	<u>D Russell</u>	R Shearer*	M Vickers	
13-Oct-19	J Lankow	M Moore	Voluntary	<u>G Wills</u>	P Tomkies*	L Brown	
20-Oct-19	R Reichardt	A Shirley	Voluntary	<u>B Aickin</u>	R Crook*	R Copeland	
27-Oct-19	P Woodford	B Matchett	Voluntary	<u>P Dowdeswell</u>	M Luxton*	D Beecher	
3-Nov-19	I Ashley	A Bailey	Voluntary	<u>T Lawrence</u>	B Matchett*	D Vaughan	
10-Nov-19	G Beazley	M Granger	Voluntary	<u>S Meikle</u>	K Ryan*	M Vickers	
17-Nov-19	M Hollis	D Housley	Voluntary	<u>T Robinson</u>	R Souter*	R Shearer	
24-Nov-19	J Lankow	B Matchett	Voluntary	<u>G Anderson</u>	A Stratton*	D Beecher	

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.

OCTOBER CALENDAR

Tuesday October 1st, 7.30pm - General Meeting, ASME clubrooms. Tonight is AUCTION NIGHT! Bring all the stuff you have for sale, including what you bought and might not have wanted from last year's auction!

Tuesday October 8th, 7.30pm - Workshop Night, ASME clubrooms

Tuesday October 15th, 7.30pm - Committee Meeting, ASME clubrooms

Coming Up

- ASME 60th Anniversary Exhibition, 9th and 10th November, ASME clubrooms
- ASME's 60th Anniversary/Xmas meal, 16th November, Ryder's Cinema & Restaurant. If you haven't already, deposit \$15.00 per head into ASME's bank account 02-0223-0078104-00, along with your name, to book your place(s) at the table.

- Hamilton Model Engineers Inc. **Steam N' Steel 2020 Convention**, Hamilton, January 9th-13th 2020. Visit www.hme.co.nz/page/steam-and-steel-2020/ for registration and other information.

Committee Comments

Committee Comments – October 2019

In July, the Ministry of Business, Innovation and Employment (MBIE) released a discussion paper headed “Implementing the Health and Safety at Work Act 2015: Better Regulation Plant, Structures and Working at Heights” and calling for submissions from interested/affected parties. Nothing to do with the model engineering hobby I can hear you say! Wrong. The Paper suggests the replacement of the Amusement Devices Regulations (including the 2011 Amendment under which MEANZ Clubs currently operate their miniature railways) and the inclusion of the sector with other businesses and industry deemed operators of High-Risk Plant with new rules and requirements, which if applied to our hobby could only be called “draconian in the extreme”. In late August, MEANZ issued a guideline submission for member clubs to use in response – suffice to say that ASME is preparing its own submission using this guideline in a strong attempt to ensure our hobby operations are not deemed to be, or lumped in with, new rules for High-Risk Plant operations appropriate for workplaces involving machinery, equipment, tools, vehicles, structures, heights or excavations.

The Committee has not received any suggestions from the membership for the annual donation to a worthy charitable cause for this Club year, so will now proceed on the basis of suggestions and research undertaken by the committee alone.

The annual auction is the programme for the October General Meeting. Tony Lawrence has volunteered to be our auctioneer again, so please bring along all those unwanted model engineering related items so he can find a new home for them. As usual the basis will be a 20% seller’s commission to the Club, unless agreed otherwise beforehand.

Bookings for the ASME 60th Anniversary/Xmas meal at Ryder’s Cinema & Restaurant are coming in steadily, so reserve your place now by making payment into the ASME bank account (details in the last two issues of Micrometer). We will be making a decision on the film to be shown soon – rest assured it will be of general interest, so as not to bore wives or partners!

We are still looking for a number of missing issues of magazines ASME subscribes to, as set out in this issue – see list below. The library copy of the 2012 AMBSC Copper Boiler Code hasn’t turned up as yet – should you find it please drop it back to the Library asap.

It’s now almost 2 months to the AGM in December – have you been thinking about what you can do to help lead the Club into its next period of progress? Remember, our current President must retire under the Rules and therefore a new man must be appointed to the role. If this is not for you, maybe you could join the committee and help in the multitude of small jobs needed to be done to keep the club ticking over like the proverbial “sewing machine”. Consideration of these matters is needed by everyone in the membership to ensure all the roles in the Club are filled at the AGM.

Missing Magazines

The ASME library is missing copies of the following magazines (they have not been received by ASME and their absence was not noticed until Mark took over as librarian). We would like to obtain copies of same to complete our collection: **Model Engineer: Vol 216 - Nos 4529 & 4530, and Vol 218 - No 4562. Also Model Engineers' Workshop: No 240, April 2016.**

In addition, we have found that it is no longer possible to get a copy of **Model Engineer Vol 222 - No 4609 March/April 2019**. A copy of a publication so recent would normally be available from the publisher, but we have had no success. If you have any of these and are willing to part with them, please contact Grant or librarian Mark Luxton (or email me at editor@asme.org.nz). ASME is prepared to pay for any of these publications received.

ASME's 60th Anniversary is almost upon us - time for some photos from way back when...

Below is a scan from a "The Stoker" magazine (July 1965) showing ASME's member Les Fitt's 3.5"g Kb loco in pride of place in an Auckland model store. This loco now belongs to a member of New Plymouth SMEE.

CLUB DISPLAY IN CITY STORE



In a campaign to recruit new members the A.M.M.R.C. is at present featuring a display of model railways and club activities in a window of **MARTIN'S** city store in Customs Street East.

Pride of this display is a three and a half inch gauge K class loco built by Mr. Les Fitt of Auckland. This loco is creating a tremendous amount of attention from the public and hobbyists alike.

Customers who have shown an interest in this display are given a club prospectus by **MARTIN'S** and many have already expressed a desire to join the club.

THE STOKER



And a picture of the late Basil Wilson guiding Ab660 around the old Lagoon Drive track.

(Photo by Grant Anderson, May 1967)

October Photo Competition

We've decided to run another photo competition this month.

Let's try and get a few more entries than we did back in August!

As with the previous photo, the guy with the camera is still an active member of the club. Who is he? What is the loco? Who is the owner? What year was the photo taken? What is the exact location on the track? What is up behind on the boundary?

Answers by email to editor@asme.org.nz. The winner of the competition will be the member who gives the correct answers to most of the above questions.



Bits and Pieces September 3rd 2019

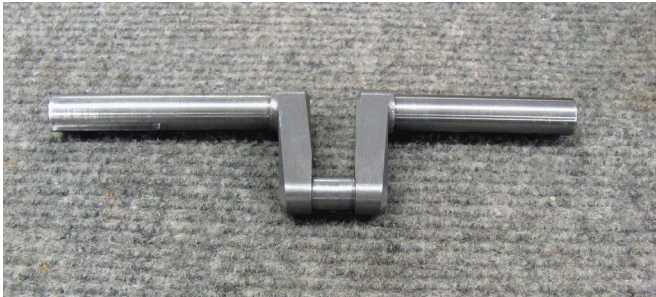
Presented by Mike Banks, Photos and report by Dave Russell

L/h expansion link bracket casting and slide bar brackets in white bronze for 5" Britannia.

Mike Jack made the waxes for the castings, the white bronze is a tri-metal alloy.



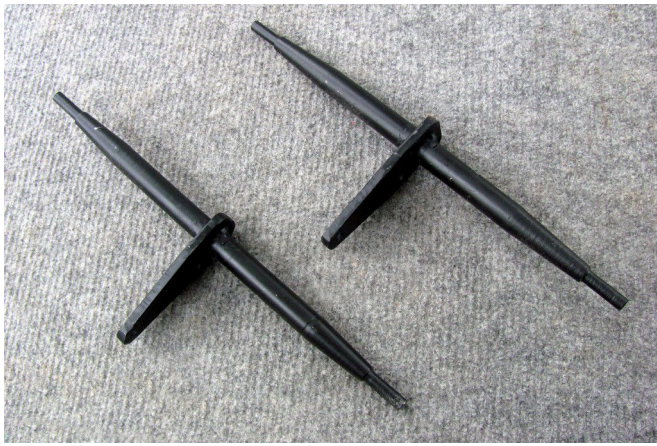
Mike Jack's expansion links for LMS 5" Duchess class locomotive. These are nearly finished now and will soon be sent off to the proud owner.



This flywheel & crankshaft are for a Cotswolds stationary engine that Mike is working on for a client, the blank for the crank was roughly cut from plate steel when supplied.



Peter Tomkies brought in this machine part that needs some TLC, the item has some spring loaded pins for holding a job in the machine but they have broken and stuck over time. Greg Burrows offered to do a repair job on this item.



Greville Wills is finishing off the last two of twelve brake weigh shafts to be fitted to the 7-1/4" bogies being fitted to the old raised level 5" passenger trolleys which are being converted to ground level.



Part of the same job is the assembly of the bogies being undertaken by **Grant Anderson**. Grant has made a couple of dollies so that the bearings can be pressed into the wheels squarely. You can also see where a magnet has been put on the inside of a wheel to operate a speedo on the trolley.



A stationary test boiler is being finished by visitor **Bill Parker** after the owner came to Bill for help. Bill says a handy tip is to paint with "Twink" where you want to mask to prevent silver solder getting where it's not wanted.

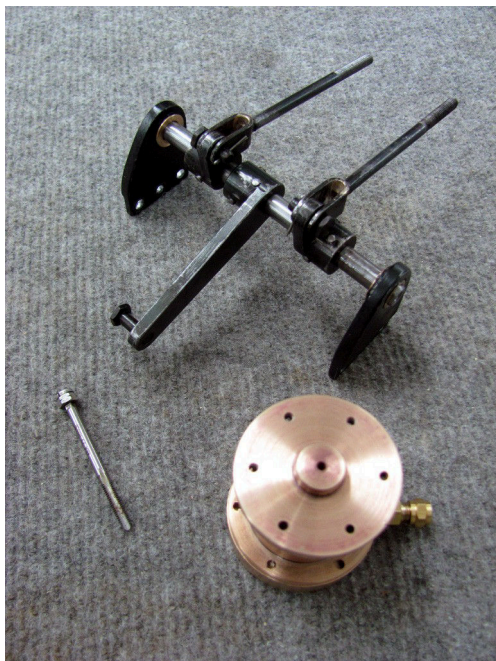


Pete Woodford has landed another collet adapter from China, this one is BT30 to ER16. Pete says this one is good and true.



Tim Robinson had to repair the thread in an electric motor where this eye bolt had stripped the thread out on removal.

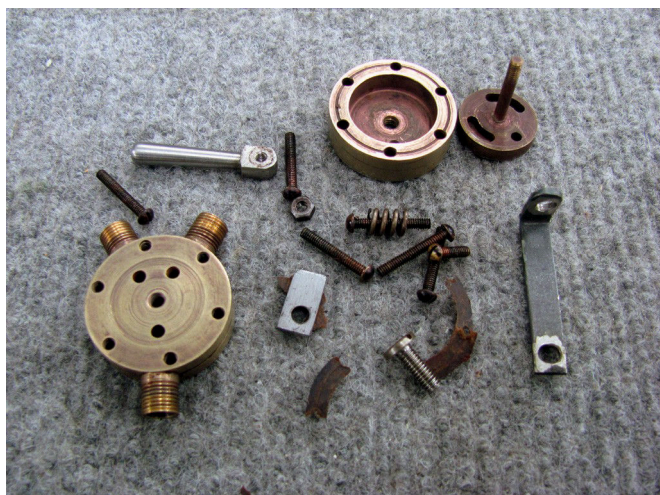
This item is a demonstration from **Greg Burrows** in the uses of "Modelling Board". In this case a hollow has been machined in the board to hold a plastic test piece for an appliance. Greg says the board is like Bondofil that has gone hard and is easy to machine.



Must be the month for brakes as **Mike Banks** is making the finishing parts to put brakes on his 5" King locomotive. The brake steam cylinder can be seen in the foreground.



My collection this month is a range of parts for the 5" Maid of Kent, "Dover" that is under rebuild at the moment. First the injector water valve, exhaust tube and whistle. Second is the cab brake control valve. Lastly the brake steam cylinder.



Workshop Night, Tuesday 16th September 2019

This Tuesday night got off to a good start with most of the people showing up by 7.35pm. We had just a couple of late-comers bringing the total to around 14 for the night so it was another well-attended ASME Workshop night to talk about the bits and pieces and with the weather getting better it is hoped that more will try and come along to this night. We started the meeting and at the same time we got straight into the tea pot and some nice biscuits to help the night roll along. The meeting was closed down at around 9-35pm

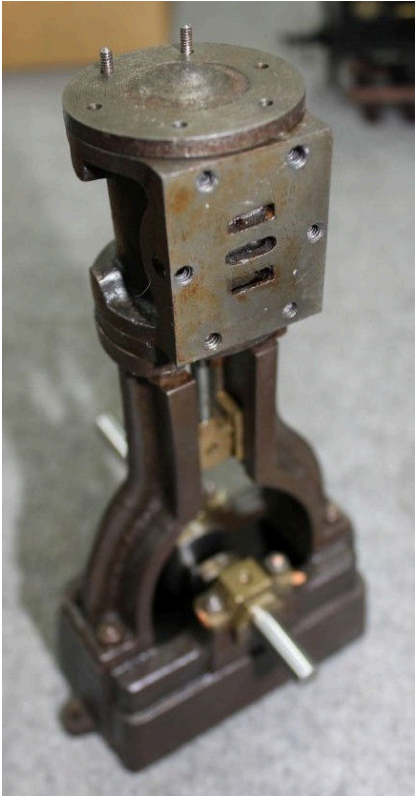


Michael Jack has been busy making some more valve gear parts for one of his customers. Here you can see the expansion link and the expansion rod assembled together along with a spare expansion link. Again up to the usual standard that we have come to expect from him. If you look closely at the second photo you will see a little cover with 2 little nuts and bolts holding it on. These little fasteners are only 1mm diameter and very fiddly to tap.



Also from Michael we find a box of castings, some for the Class-3 tank loco kits and others for a 5" gauge Britannia motion bracket; also a small smokebox saddle for a Gauge 1 locomotive and a valve gear bracket for someone making a model with Baker valve gear on it. Lastly in the middle are some buffer castings for the head stocks on Standard BR locomotives. All these are cast in white bronze. Once again, very nice work Michael.

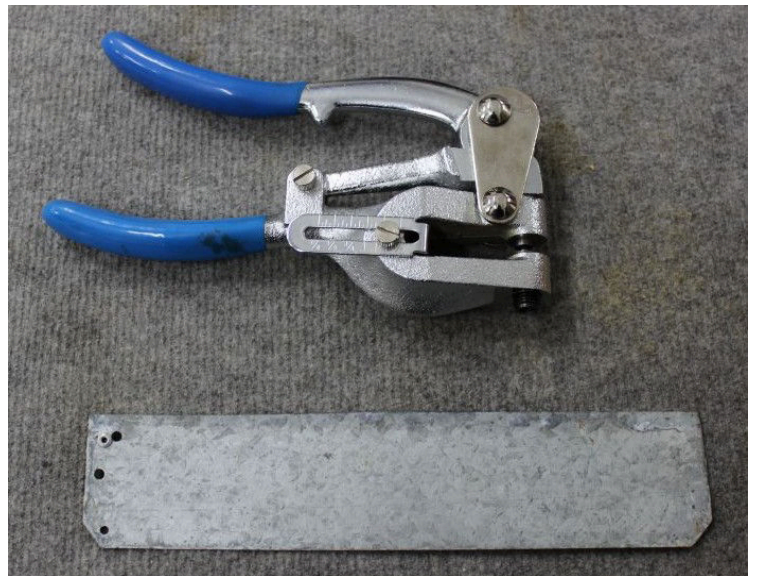




Visitor Bill Parker has been doing some work on this Stuart Turner 7a vertical engine: just a little distraction from the 4" scale Foster traction engine for a couple of days. He wants to save it for his retirement he tells me. Still a nice little engine, you will see that this model is one of the old sets of castings with a different type of cylinder and crosshead supports from the model that Stuarts now sell.



Murray Hollis has been busy drilling holes in awkward places and found that by punching holes in a piece of scrap plate with a Whitney Punch set he could then use this to locate where to drill his holes in the job at hand.





Murray came across this old Record plane that has some damage to it and was asking what ideas the others had on how best to fix it up again. The most recommended way was to heat the whole base up and bronze braze the broken piece back into place, and then it could be re-machined to straighten everything up again.

Peter Woodford brought along a button die holder he made some time ago when he was an apprentice. These units are very useful for holding the button die nice and square with the shaft that you want to place a thread on. He has made a range of sizes so he can hold all the common size dies available. They also have been set up with 3 grub screws so you can make small adjustments to the button dies to get the correct fit of each thread.



Greg Burrows has been carrying out some repairs to a friend's Gauge 1 garden railway live steam locomotive that developed a problem with one of the crank pins in its drivers. (The crank pin worked loose and wouldn't drive the valve gear) so to start working on these small locos you need to have some small hex nut drivers, and not having any small enough and not wanting to spend too much on them, he wandered across the road to the Chinese tool shop to buy some cheap screwdrivers so he could cut the ends off them and drill and tap them to enable some hex head screws to be screwed in with Loctite to hold them. Once the Loctite had set he turned the ends down to make them look more like a commercial set of nut drivers. He also made up a nice little wooden stand to hold them.



Well that is a quick round up of the workshop night and as always it is good to see members interested in supporting this night. Remember if there are questions about engineering or other ideas on how to do something that you would like help with, just bring them to the night. So remember this meeting takes place at 7.30 on the second Tuesday of the month and all members are welcome to come along and join in. Cheers, Greg B.





HOW WOULD YOU FANCY A DAY OUT ON THIS BEAUTIFUL STEAM TUG?

We have been invited (along with members of MLS) to spend the afternoon of Saturday the 2nd of November from 2pm till 5pm cruising around Auckland harbour on the original SS William C Daldy.

This is the largest operating steam tug boat in N.Z

The cost for the afternoon will be \$45.00 per person. There will be a bar on board for beer and wine with tea and coffee also available.

There needs to be at least 100 people interested to make this trip viable so wives, partners and friends and members from other clubs are also welcome.

Check out this website for the Daldy at www.daldy.co.nz

Steam Tug

William C Daldy

November 2nd

2pm – 5pm

\$45.00.

<https://www.eventbrite.co.nz/e/model-engineers-sailing-tickets-70721300313>