

Number 680

July 2022

The MICROMETER

AUCKLAND SOCIETY OF MODEL ENGINEERS INCORPORATED

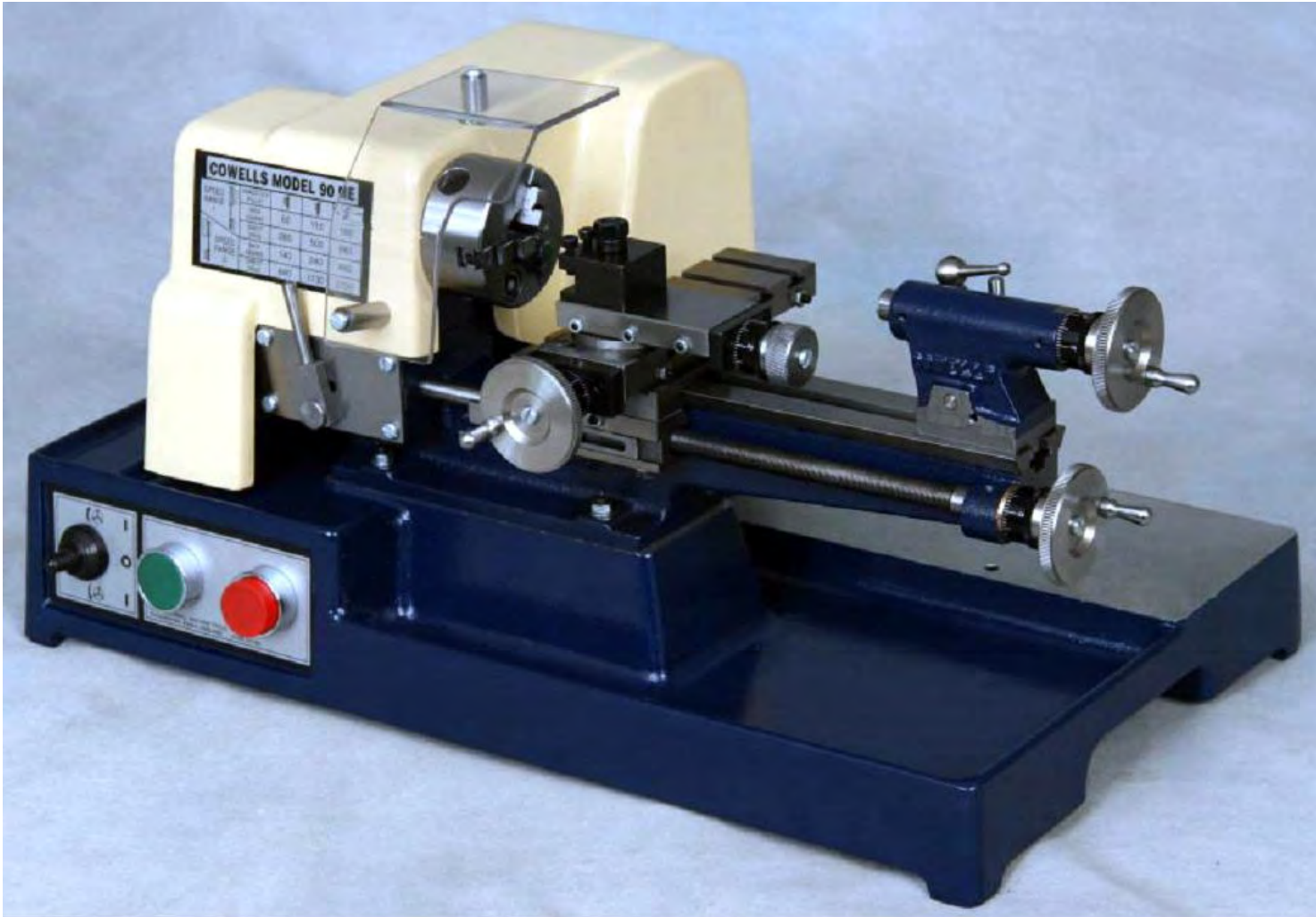
PO Box 14570, Panmure, Auckland 1072, NEW ZEALAND

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REGISTERED NEW ZEALAND PUBLICATION



the first Cowells model and is still offered today as the basic Model 90E

President's Report, July 2022

Hi to you all and I hope you are keeping well. I have just spoken to Murray Granger, who had a stroke about a year ago, and although he is doing better as far as walking etc, he tells me he tires quite quickly and has major problems with his memory. He would like to get out to the club again but is unable to drive, so I will try to see if we can facilitate something for him. He would also welcome visitors, so if you are around Torbay at any time drop in and see him and Jill.

With Matariki the Maori New Year upon us there is the promise of renewal and longer days, though there may well be a lot of cold and wet before we have anything noticeable. Despite a couple of wet days Sunday Running is still proving popular so thanks to all those who help make them a success, especially the regulars on Saturdays.

The refurbishing of the basement workshop is now well under way and we hope to start moving the machinery in very soon. Progress is also being made with the repairs to the Engine Shed (though not as fast as some would like) and the result should be worth waiting for.

We had a good demand for the spare copies of the Workshop Practise books, and details of those remaining can be found in this Micrometer. Most of those missing from the club library have now been allocated, and it is hoped the others will be sourced in the future.

My thanks to David Black for his talk on safety around welding at the last club meeting and for his enthusiasm for other topics he is willing and qualified to talk on. If anyone else has items they feel might be of interest please let the committee know. The talk doesn't need to be long or even particularly related to modelling, and we will be keen to assist in any way.

Don't forget that the workshop nights are still happening regularly and bring anything you are working on along to the club meetings as well. Any of our more distant members who are working on projects are strongly encouraged to send photos with a bit of a write up to the editor who will be only too pleased to include them in the next edition.

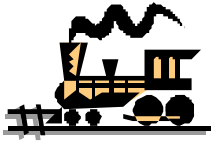
Cheers,

Mike Moore.

ASME is an active member of MEANZ, members should keep a lookout on the website too www.meanz.org.nz, a good place to find other clubs when you are travelling. However, the website is not necessarily up to date and is soon to be updated. Just like us, our friends nationwide always welcome visitors.

JULY CALENDAR

- | | |
|--|-------------------------------|
| <u>Tuesday July 5th, 7.30 pm</u> | - General Meeting (Clubhouse) |
| <u>Tuesday July 12th, 7.30 pm</u> | - Workshop Night, (Clubhouse) |
| <u>Tuesday July 19th, 7.30 pm</u> | - Committee Meeting, (Zoom) |



Train Roster

ASME				DUTY ROSTER		
Date	Electric Driver	Electric Driver	Steam Driver	Train Controller	Station / Guard	Station / Guard
3-Jul-22	I Ashley	A Bailey	Voluntary	<u>G Wills</u>	R Souter*	D Beecher
10-Jul-22	M Hollis	D Housley	Voluntary	<u>B Aickin</u>	A Van Zon*	C Whitiskie
17-Jul-22	J Lankow	S Meikle	Voluntary	<u>D Black</u>	R Shearer*	M Moore
24-Jul-22	R Reichardt	B Matchett	Voluntary	<u>P Dowdeswell</u>	D Wilson*	
31-Jul-22	K Ryan	R Shearer	Voluntary	<u>T Lawrence</u>	M Vickers*	L Brown
7-Aug-22	I Ashley	A Bailey	Voluntary	<u>T Robinson</u>	R Crook*	D Beecher
14-Aug-22	M Hollis	D Housley	Voluntary	<u>D Russell</u>	M Luxton*	H Dando
21-Aug-22	J Lankow	M Plant	Voluntary	<u>G Wills</u>	R Souter*	R Shearer
28-Aug-22	M Moore	R Reichardt	Voluntary	<u>B Aickin</u>	M Vickers*	C Whitiskie

A volunteer for the station/guard duty on 24th July would be appreciated.

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.

At the date of publishing New Zealand is at COVID Orange Traffic Light
Public running is resumed 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.

Road Closure Affecting ASME !

Auckland Council Community Facilities advise proposed pavement renewal works on the road access leg from the Peterson Road gate to the start of the carpark area (extent of previous works) at Peterson Reserve, Panmure Basin.

This work will have an impact on **access to the Peterson Reserve Carpark and Clubs that access via Peterson Reserve for about a week**. As the access road is barely two lanes wide, it would be difficult to carry out the works in two halves while maintaining a single lane (controlled) access, **so the road will need to be closed to vehicle traffic for a week**.

Weather depending, it is proposed to start on Monday 27th after the Matariki long weekend.

STOP PRESS

The delay in starting was due to the unavailability of a machine however we are assured of access for next week's meeting on Tuesday 5th July



David spoke about welder technology and safety equipment. Showing a typical rag-top welder's cap. The important difference between gloves for MMA/MIG welding was shown. Also flip up goggles for grinding or shade 5 (gas welding and cutting) was shown. The importance of flashback arrestors was emphasised and a modern small Harris torch with built in arrestors on the handles was on display.

Safety Talk with David Black

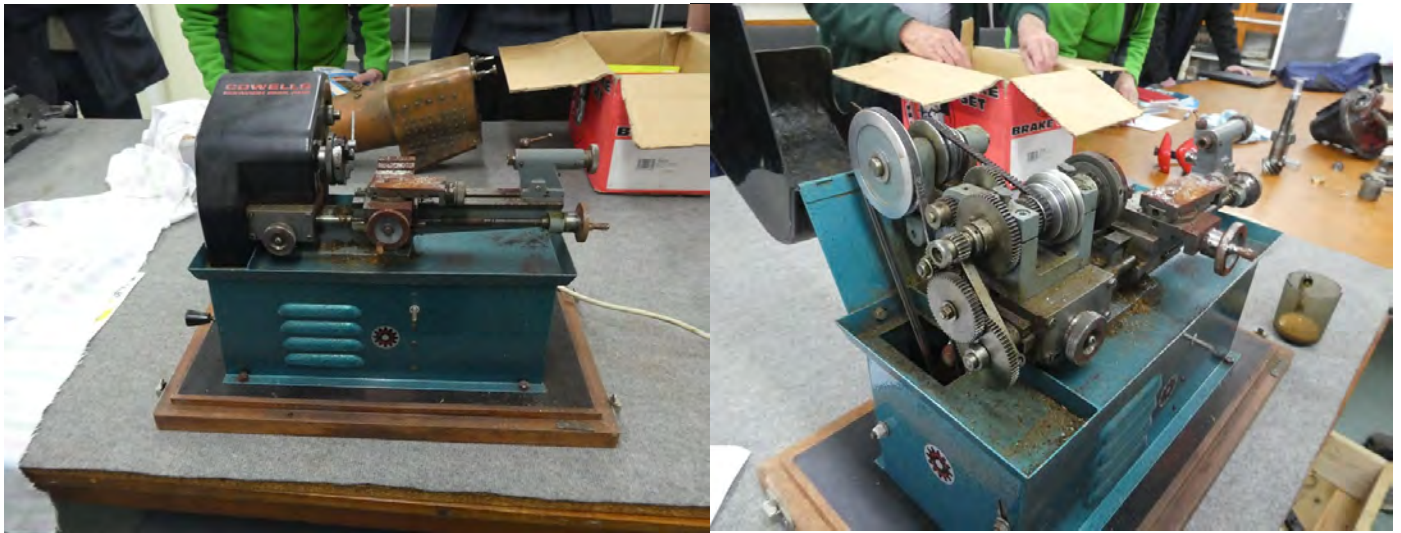


Greville brought in a copper boiler of built by the late Bill Parker, but for what?. Nothing more known so far!

Mike Jack showed progress on his latest locomotive chassis.

Grant brought in the differential from the rear axle of an early 1950's Ford Zephyr, describing his technique of pre-loading the pinion bearing.

Bits and pieces with Greg Burrows



ASME has been gifted a Cowells Lathe.

This lathe is still available from the English manufacturer. It is compact lathe of conventional design constructed from cast iron and steel, the 90E is individually built and issued with an engineers test certificate. A one piece massive iron casting of cantilever form incorporating auto-traverse clutch box. The bed is dovetail in form and ground on all faces. A central tee-slot provides a positive and accurate location of the tailstock. A gap in the bed allows for the swinging of a loco wheel or flywheel. The cast iron saddle carries a long steel crossslide, which is tee-slotted to enable the mounting of a wide range of accessories. The crossslide has an etched angular scale $45^{\circ} - 0 - 45^{\circ}$ to facilitate taper turning should the topline be added. All slides are fitted with full-length adjustable gib strips. Hand wheels are of steel and incorporate laser etched, re-set to zero calibration dials. The headstock is of cast iron and employs a ground steel spindle running in honed bearings split with adjusters for the elimination of tool chatter and wear. An oiler for each bearing is fitted. The spindle is bored to pass 6.7mm and has a no. '0' Morse taper. Drive is via a three stepped cast iron vee pulley. A speed reducing backgear is fitted for the machining of large diameter cast iron and to facilitate screwcutting if the Auto Traverse Kit and screwcutting gear set is added. The tailstock is of cast iron and is bored and honed to accommodate the ground steel barrel. The barrel has a no. 0 Morse taper and will self eject tooling. Locking handles are fitted to both body and barrel. The tailstock may be off-set for the turning of long and shallow tapers. The countershaft consists of a three stepped steel pulley that drives the headstock pulley and a double aluminium reduction pulley for motor drive. A fast action cam is fitted for speed changes and belt tensioning.



The donated 2" Burrell road haulage traction engine .Kindly donated to ASME for display in the clubrooms by Dorothy Deverson of Cockle Bay April 2022

The first Burrell Traction Engine was built in England in 1889.

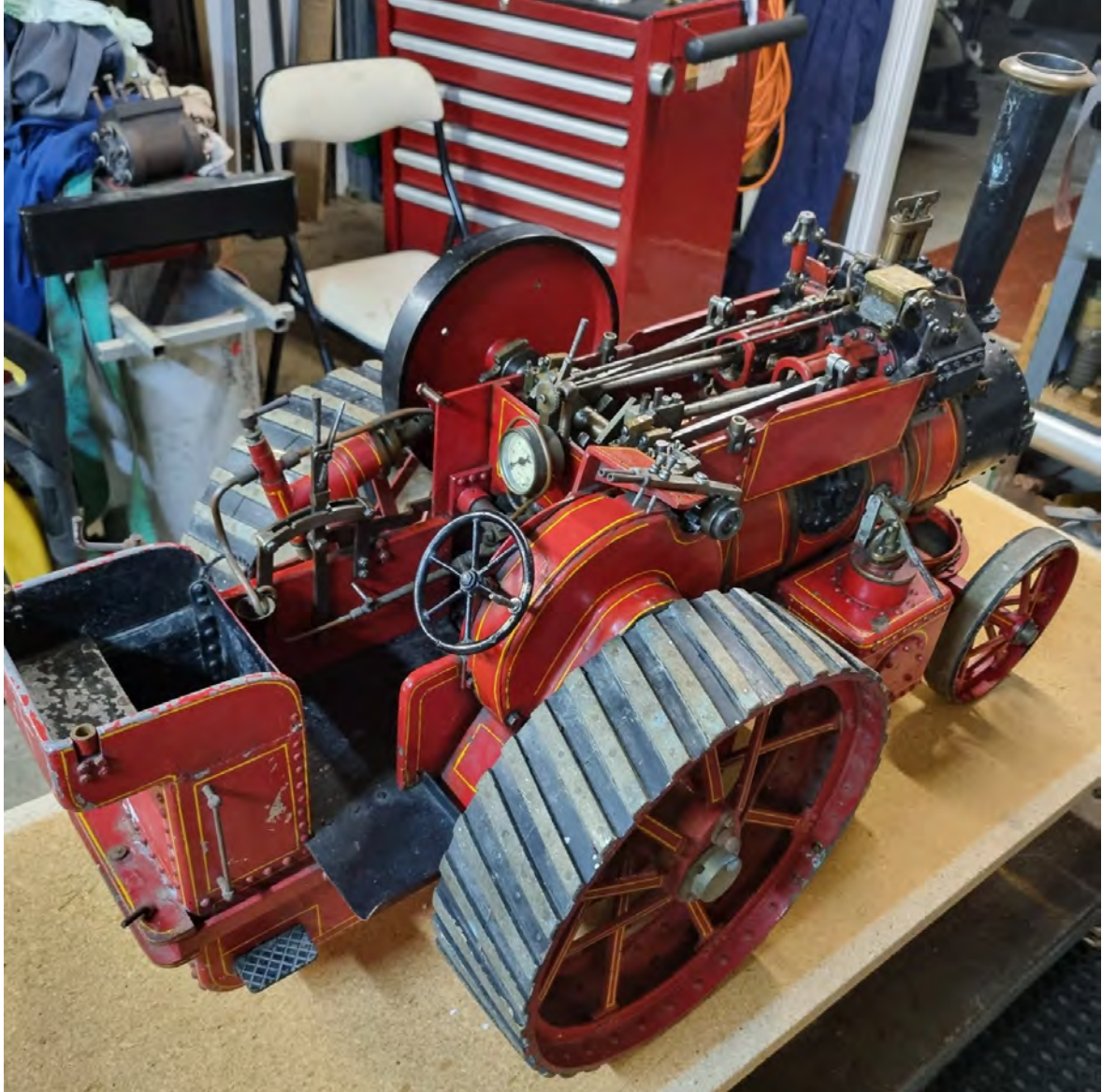
This model was built in the 1960's in Germiston, Transvaal, (Gauteng as it is now), South Africa by James (Jimmy Bennett).

Jimmy was born in 1908 in England, emigrating to South Africa in 1910. He was a brass moulder by trade and had a small furnace at home where he cast most of the components of his models including the traction engine. From a very early age he was interested in steam engines of all kinds and made models all his life, including winding engines for gold mines and boilers to provide the steam to drive them. He also built model locomotives and constructed a track around his garden for the locomotives to run on. At the time of his death in 1973, he had built a collection of sixteen working models, including two locomotives and the Burrell traction engine. He fired his models up regularly including the traction engine which he ran up and down our street where we lived.

He exhibited his models in shows in the Transvaal and entered them in competitions, winning many awards in gold, silver and bronze.

When Jimmy died in 1973, all the models and locomotives were donated to the Bloemfontein Model Engineers Society in the Orange Free State province of South Africa but the traction engine, which was his pride and joy, was shipped to his daughter in New Zealand. It remained stored in her possession for 49 years until it was donated to the Auckland Model Engineers Society in 2022. '

A kind donation to our club





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 few left

Numbers 5, 10, 30, 36, 38, 42, 28, 37, 30, 29, 20, 43, 33, 15, 47, 41, 36. are still available

They will be on the table in July

Most can still be ordered from Tee Print at GBP 7.95