

The Generator

Issue 524
July 2025



Palmerston Model Engineering Club
www.pnmec.net.nz - pnmec@trains.net.nz

Managers of the Marriner Reserve Railway - Marriner Street - Palmerston North
C/- 119 Ruapehu Drive - Palmerston North 4410

The Palmerston North Model Engineering Club **Upcoming Club Events**

Club Nights typically start at 7.30pm and are usually held at the
The Hall, 435 Church Street, Palmerston North.

Thursday 24th July

Club Night
Special General Meeting
Formal vote of proposed constitution plus M E Quiz

Thursday 28th August

Club Night
Marine Engineering Evening

Marriner Reserve Railway

Sunday 3rd August & Sunday 17th August

Railway operations at the Marriner Reserve
Trains in operation from 1pm to 3pm
Weather permitting (Richard Lockett 06 323 0948)

Thursdays

Railway operations for club members
Subject to ongoing track maintenance and weather
Contact track manager (Richard Lockett 06 323 0948)

Club Notices

July Club Night

Special General Meeting

A Special General Meeting will be held on the 24th of July at 7.30pm in the Hall 435 Church Street, Palmerston North.

Agenda.

1. The vote to adopt the proposed new Club Constitution.
2. The vote to formally submit the new Club Constitution for acceptance by the registrar of Incorporated Societies

The Special General meeting will be followed by a Fun Quiz on the topic of our hobby of Model Engineering, yeah right. Bring your sense of humour.

Subscriptions are now due.

Lawrence advises that there are a few club members who have not paid their subscriptions, if that's you please read the following!

Membership subscriptions of \$40.00 as set at the Annual General Meeting are now due.

Please pay Club Treasurer Lawrence Brooshooft at a club night or preferable pay direct into the clubs bank account via internet banking. **Account number 06-0996-0831663-00 bank account name is Palmerston North Model Engineering Club Inc.**

Please remember to use your name as the reference.

August Shed Visit

Just a reminder to keep a eye out for an email notice of the time and date of our planned visit to a Palmerston North Automotive Engineering business specialising in the manufacture of motor sport engines. Which may take place on August the 16th but this is to be confirmed nearer the date.

What was the engine shown last month?

A couple of you recognised the engine as a Cosworth but I needed a bit more information than that from you!

The British firm of Cosworth have made many different engines since being formed in 1958 by Mike Costain and Keith Duckworth (hence Cos Worth) for competition badged by different automobile manufacturers, Ford and Mercedes as example. The engine shown is the DFV the abbreviation for Double Four Valve a V8 design of 3000cc developed for Formula One single seater racing in 1966/7 financed by the Ford Motor Company's European Division for exclusive use by Colin Chapman's Lotus Formula One Team who won on debut with the DFV at the 1967 Dutch Grand Prix at Zandvoort. So successful was the engine that Ford decided to make the engine available to other teams to use and with ongoing development the DFV became the dominate Formula One engine until its last win in 1983 in the back of Michele Alboreto's Tyrrell 011 at the Detroit Grand Prix.

Jim Clark and the Cosworth DFV powered Lotus 49 on the way to a debut Grand Prix win at the Dutch GP Zandvoort 1967.



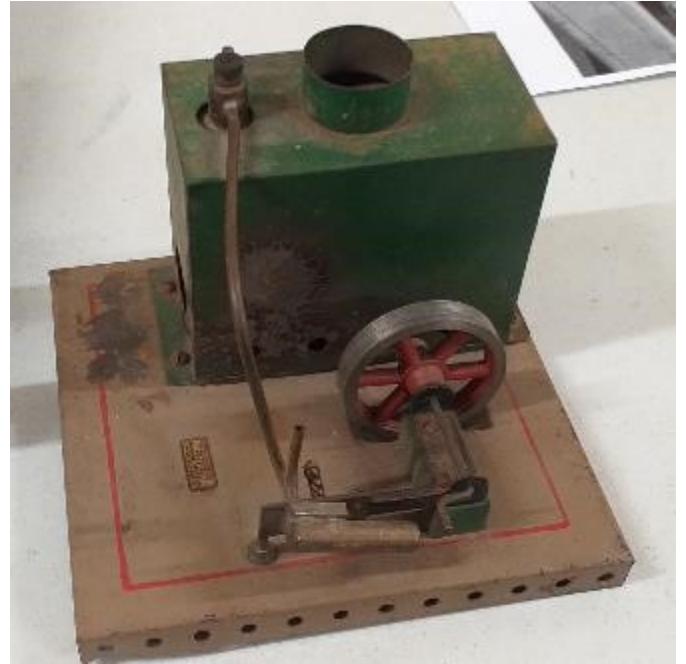
Photo Web

June Club Night Report

An interesting array of items were shown off at the June club night.

Fin Mason had a Cranko stationary steam engine and boiler which he was carrying out some repairs on for a family friend. Spot the missing part. The base plate being perforated with holes to fit Meccano parts. Cranko being a NZ (Havelock North) made product from more than a few years back!

Photo Editor



Bruce Geange continues to impress with his skills adding to the Peterbuilt tractor unit with a low loader transporter modelled off Owen Mudgeway's full size example.

Photo Editor

Progress continues with Merv George's Bobber Motorcycle project with the fabricated swinging arm completed.

Photo Merv George



An internet purchase of a radio control truck chassis formed the catalyst for Kyle Mudgeway's project matching the chassis up with cab and extras from other kitsets to build a Mack Superliner tractor unit.

Mack trucks being imported and assembled in Palmerston North by Motor Truck Distributors over a numbers of years.

Photo Editor



Regan Olivecrona has got his workshop re-set up and is back onto his Phantom locomotive build, machining the wheels and tyres. The large driving wheels and tyres are too big for his lathe so he has to borrow the use of a larger machine.

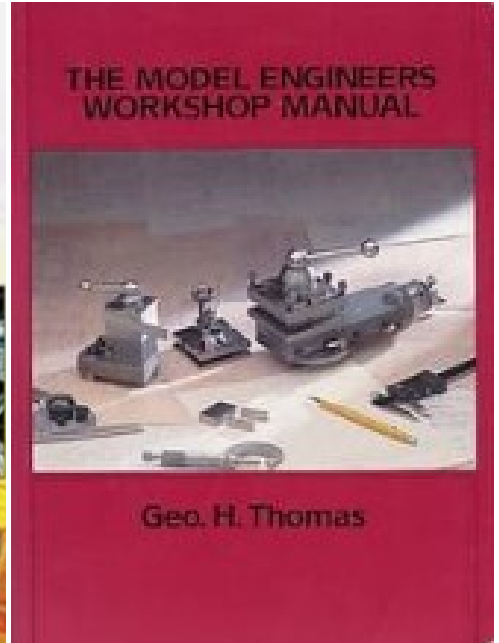
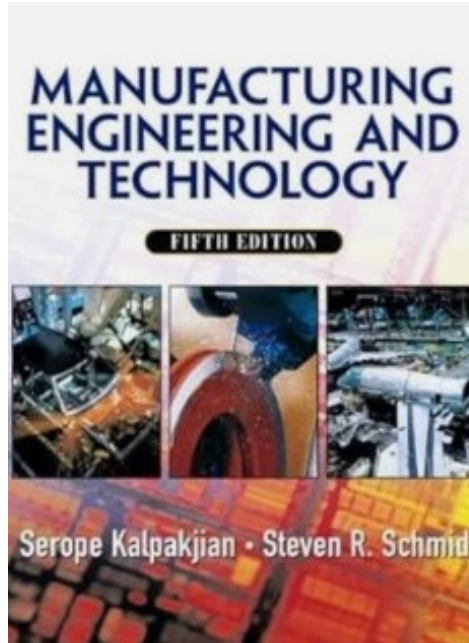
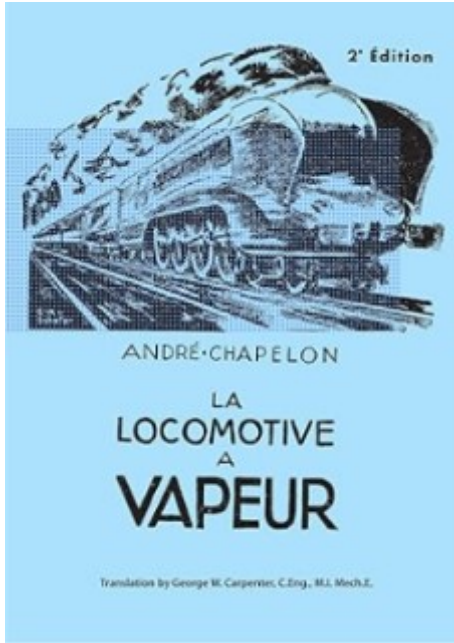
Jonathan Mason has been involved in the restoration of a Little Jumbo hit and miss Engine. Part of the governor mechanism was missing so a replacement component has been made. Jon was able to get hold of an original component off another engine to use as a template.

Photo Editor



The Generator

Library Book Review



Book Review

Thanks to Chris Bjerga who recently donated the following books to PNMEC Library

La Locomotive A Vapeur

By Andre Chapelon; translated into English with updates.

“If any man was qualified to write a comprehensive book from experience on the state of steam locomotive construction at it’s zenith, and of the world’s major steam locomotives it was Andre Chapelon, the Frenchman who designed some of the world’s most advanced steam locomotives”. This book has an almost legendary status, a must read for the serious constructor including technical details, performance comparisons, current practice, construction methods etc.

Manufacturing Engineering and Technology

5th Edition by Serope Kalpakjian and Steven Schmid.

An engineering textbook to motivate and challenge “students”. It covers relevant fundamentals and real world practices right through to modern topics of CAD/CAM, micro electronics / mechanical devices and system manufacturing. Includes case studies (i.e. Mercury use of lost foam casting of engine blocks), questions and yes, the answers are in there somewhere. Some of the 40 chapters include Rapid Prototyping, Abrasive machining and finishing, Surface treatments, coatings and cleaning and advanced machining processes.

The Model Engineers Workshop Manual

By Geo. H. Thomas.

Another must read with 28 chapters covering setting up, machining operations, Ball handles, Screw cutting and tools to assist, Top slide locks, a small rotary table, stresses and strains and making parts for locomotives.

“Stella”

By Peter Scott.

A hot air engine powered locomotive for 45mm gauge railways.

A comprehensive book in colour, covering all the details you should need to construct this Loco.

If you wish to “book” one of these books or another from the PNMEC library please contact **Merv on 021 081 69930**

When I became involved in this Hobby of running live steam locomotives I was told that it's a serious business and upon viewing this photo of Kyle Mudgeway with his newly acquired 3.5 inch gauge Black Five locomotive on the hoist at the Marriner Reserve Railway I see that things haven't changed.



Photo Jonathan Mason

Date and Time			Activity
Thursday	24th July	7.30pm	Club Night Special General Meeting Plus Model Engineering Quiz
Sunday	3rd August	1pm to 3pm	Marriner Reserve Railway
Thursday	7th August	7.30pm	Committee Meeting
Sunday	17th August	1pm to 3pm	Marriner Reserve Railway
Thursday	28th August	7.30pm	Club Night Marine Engineering
Thursday	4th September	7.30pm	Committee Meeting
Sunday	7th September	1pm to 3pm	Marriner Reserve Railway
Sunday	21st September	1pm to 3pm	Marriner Reserve Railway
Thursday	25th September	7.30 pm	Club Night Metal Selection

If you would like to be notified when this newsletter is published, send us an email with your **Name, Club** and **Email** address to pnmec@trains.net.nz with **“Generator Please”** in the subject line.