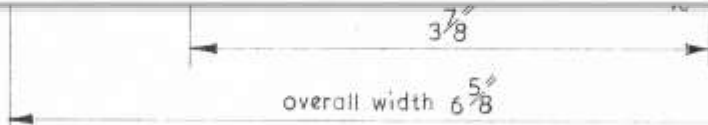


Wheels & Floats

November 2024



Tauranga Model Marine and Engineering Club Inc.

TAURANGA MODEL MARINE AND ENGINEERING CLUB INC.

The Secretary
PO Box 15589
Tauranga 3112
secretary@tmmeec.org.nz

Miniature Railway Memorial Park
Open to Public, weather permitting
Sundays : 10am to 3pm approximately

Palmerville Station Phone 578 7293

Website: www.tmmeec.org.nz

MEETINGS

General Members Meeting every first Tuesday
7pm.
Committee Meeting every second Thursday at
7pm.
Maintenance Tuesday mornings from 9am.
Engineering discussions Tuesday evenings
7.00pm.

COMMITTEE

President: Bruce McKarres 022 0455154
Vice President:
Club Captain Joanne Knights 020 41909567
Secretary: Warren Karlsson 027 5422863
Treasurer: Jason Flannery 021 629048
Committee: Russell Prout, Bruce Bocock,
Warren Belk, Bruce Harvey,
Owen Bennett, Stewart Walker.

CONVENERS

Boiler Committee: Owen Bennett, Bruce
McKerras, Ash Thomas, Ross Campbell.

Safety Committee:

Warren Karlsson, Bruce Harvey,
Bruce McKerras, Russell Prout

Workshop: Owen Bennett, Brian Marriner

Drivers Licencing : Bruce McKerras

Track: Bruce Harvey, John Stent,
Russell Prout

Librarian: Chris Pattison

Rolling Stock: Bruce Harvey

Trach Managers : Bruce Harvey, John Stent,
Russell Prout

Website: Chris Pattison, Peter Davies

MEANZ rep Russell Prout

Editor: Roy Robinson 07 5491182
royrobkk@gmail.com

Cover photo : President Bruce congratulates Regan O as the person who travelled the furthest to come to the Open Weekend.

Presidents Report November 2024

Wow Team, it has been a busy month! Our Halloween Night Run, busy Sunday running and our Open Weekend, whew! However, I do think that all our events and activities have gone pretty well. I really enjoyed our Open Weekend, even though my Phantom was misbehaving (again)...



Open weekends have changed and have become a big playday really, it was nice to see all of our members' toys out on display and in use. A couple of new items this year are the new raise track turntable and 5" pop-up steaming bay. A big thank you to Jason and Russell here (and all the others who helped too, of course), for driving this raised track improvement forward. It was an idea put forward by Regan in attempt to revive the smaller engine side of our hobby.

The next big event is the convention which is being hosted by Hamilton Club. This year the convention challenge (Les Moore) is a trebuchet powered by an air ram (50psi). The dimensions of this are set by the organisers and it is up to the individual to come up with their own interpretation of how to achieve throwing a tennis 27 metres across the lake and hitting a target. Team, get you thinking caps on and get building! I am pretty sure Jason can find the bits of steel for the frame. It would be cool to have several trebuchets built and evolve the best ideas from each, or even better turn up at the convention with several entries.

Now, here we go again with a rundown of the month's happenings.

Sunday 13th October:

Warren K was DO, filling in for Bruce H. Doubtful day weather-wise, OK in the morning but a sprinkle of rain cleared the park about 2pm, so we closed a bit early.

Tuesday 15th October:

Lots seemed to be going on this morning, cleaning up from the working bee and planning for next Saturday. Russell and Warren B were working on the viaduct points.



For all your plumbing needs

Mark 027 327 7260 / Phil 0204 026 8407

www.baybrothersplumbing.nz

Warren K was checking the electric loco batteries. Raised track looking great – Progress! New blind fitted at the ticket window.

Tuesday 15th (eve):

A new member, Ian B turned up tonight and we all had a good yarn.

Saturday 19th October:

Graeme H tidying up the lawns ☐. Another working bee, mainly focusing on the track upgrades. The raised track and turntable looking a bit more completed.

Russell, my good self, Stewart and Trent went over to Hamilton Club's Halloween Night Run in the afternoon. Peter W had his new Bunyip engine out and was learning how to run it and sort out its quirks, a busy night.

Sunday 20th October:

Warren K DO, I took my Phantom to the track for its steam test, it is amazing how quickly 4 years goes by. A threatening sprinkle of rain on opening seemed to shoo all the customers away, either that or everybody watched the Americas Cup? A light day customer-wise.

A new lunch today, sausage rolls and pies sourced by Warren K – a nice change.

The dishwasher was playing up again, grr.

An ex-Christchurch model engineer came to the club today, he has given us some LPG burners.

Tuesday 22nd October (morning):

Warren B and John S investing the springs on a derailing bogey, another example of the springs jammed tight in their sockets.

Warren K and I went firstly to the recycling tip and dropped off the old dishwasher, then it was on to Harvey Norman to pick up the new one. We then installed it, and so far, there have been no floods.

I picked up some new track steel for Jason, ready for the raised track mods



Tuesday 22nd October (eve):

CAD evening, Owen tutoring Phil A, 3D printer going flat out, this time parts for a clock mechanism for my grandson in Perth. Trent and I yarning Toyota Utes.

Saturday 26th October 2024:

Today was another working bee on the raised track, good progress and a now usable track (just in case somebody wants to dust off their 5" or 3.5" engine).

Sunday 27th October 2024:

Bruce Mc, DO. Fine day against the forecast.

Tamar out today. Steve and Ross turned up from over the hill. Busy day and all our ride cars were out earning their keep. 1129 rides.

I steamed up my Phantom trying to sort out all of its problems before our Friday night run, as I have just put it back together after it's boiler test. A misbehaving injector prevented running today.

A visit Bill Holland (TECT), he was very pleased with us and was impressed that our ticket price is still only \$2. Another visitor in the shape of Dave S (Meccano modeler extraordinaire).

Tuesday 29th October (morning):

Everyone getting things sorted for Friday night.

We rearranged the ride cars to get the taillight mounts onto the back of each consist. Tamar getting her tubes cleaned in readiness for the night run.

Cam lock fittings sourced for the steamer watering hoses. These had been stolen, so I think we should keep the fittings on the hoses in future.

Owen studying Cad stuff on the computer.

Tuesday 29th October (eve):

Only 4 here tonight. Ian B here again, lots of yarning going on. Owen collecting bits off the 3D printer, these were bits for his calliope. Trent playing on the computer, looking for clock mechanisms (for me).

Friday 1st November:

Halloween Night Run – Bruce Mc DO, a nice clear night. Everybody setting up through the afternoon with good cheer and banter. Cambridge Club turned up in force and were keen to help. more

Heather, Dave and Warren K on catering, a great meal me thinks.

Kick off at 5pm as people were already queued up. Heaps of helpers and everyone in the role that they felt comfortable in, which worked well. My Phantom was behaving badly again and was retired to the steaming bay. 1166 rides in 3.5 hours, not too shabby.

A lot of dress-ups this year, Halloween is gaining popularity year by year.

A big thank you to the Walker clan for the gravestones, and to Warren K for his silhouettes beyond tunnel 2.

A BIG THANK YOU TO ALL ON A BIG AND BUSY NIGHT.

Sunday 3rd November:

A normal running day – Joanne DO. 908 rides. Cool morning although it warmed up through the day. Another amazing lunch – leftovers from Friday night. Thank you, Heather, Dave and Warren K, quite nice really, made a nice change from pizza.

Everyone impressed with the Halloween pictures taken by Peter D and were rolling over on our TV screen – Cool!

Tuesday 5th November (morning):

Workshop cleaned out. A visit from Mark Duncan. Russell spent a good morning toiling on the points under the viaduct. The council have surfaced again, with a questionnaire regarding the leisure centre development, this issue has not gone away.

Tuesday 5th November Club Night:

Things turning up for the Open Weekend – some interesting projects.

Saturday 9th /Sunday 10th – Open Weekend.

A nice day weather-wise. Russell DO, welcome back Regan! Everyone there early and keen to set up. Diane and Ian B in the kitchen, thank you. I tried running my Phantom which started the day OK but quickly issues surfaced, this time with an ejector.

A wonderful table of models, steam, boats, traction engines and so much more. A very good display.

I was really glad that Rex Thoms turned up (MEANZ auditor), and I persuaded him to do the judging.

Our club is changing (has changed), no longer do we get visiting folk and locos from other clubs and fresh built in the year models seem not to show up.

However, Russell's tug boat got favour along with Warren B's Copper Kettle steam launch. The last model that caught Rex's eye was Peter Lawn's bizarre right-angled motor.

An extremely quick pack up and a wonderful tea, thank you kitchen team, wonderful.

A really nice day, it felt more like a playday to me, everyone yarning away and seemingly enjoying themselves. It was also really nice to see the raised track and its recent mods in use. Great!

We had a visit from Caroline and Bev Jones to deliver a picture of Pete for our wall.

Sunday 10th saw Stewart as DO, 770 rides. Tamar out again, nice to see.

Kerrin G running Toby again, great to have another engine on the track and the kids certainly relate to Toby.

Tuesday 12th November (morning):

Engines refueled, etc Tamar stripped, ready for the boiler inspection.

Tuesday 12th November (eve)

A special run this evening for a large group from Good Neighbour – they are a volunteer group, so we ran for free. They fed us pretty well and I got the leftovers – Yay.

From the Committee Meeting.

Passenger rides this month, 3211.

Special Runs (heaps coming up) so get ready to volunteer.

Tamar boiler cert coming up, possibly this week.

Black Magic's hydraulic pump has arrived – yay!

We could do with some more ride cars for the raised track – Please – anyone, get building.

Russell has made some new signals for the station lights – these were 3D printed – they give a direction arrow as well as red and green.

240volts to the Chook House station to be investigated.

Jason F and Peter D have designed a new body for the electric locos to make them look like the new DM, should look really nice.

Bruce H has asked to be temporarily stepped down from the ride car warrant of fitness role

Proposal for a new stove for the clubhouse, put forward by Joanne (who has no intention of ever cooking on it) as there were a few issues with the current one overnight run and open weekend.

Our Christmas Party will be held Saturday 1st February. We have had an invite from Shane to hold our do at his new track – Team, this will be a real treat for us the track is amazing. We will take some engines and ride cars along so we can all have a play.

POST CONVENTION RUN – TUESDAY 14th JANUARY 2025

The Tauranga Club will be hosting a post-convention run/playday on Tuesday 14th January, immediately following the convention.

We welcome all visitors, all gauges, traction engines and road locos. Come and join us, catering will be provided too.

Club Apparel

Several members have enquired about Club Apparel, TMMEC does not take and process orders for Club apparel and leaves this to the individual members to procure their requirements from ACE Embroidery details below.

ACE Embroidery & Patches

Nitro polo's are \$39.95 each, the Club logo is \$16.50 and individual Names are \$4

The polo's are available for Men from size Small to 5XL

Women from size 8 to 24

Bucket hats are \$10.50 with the Club logo a further \$10.

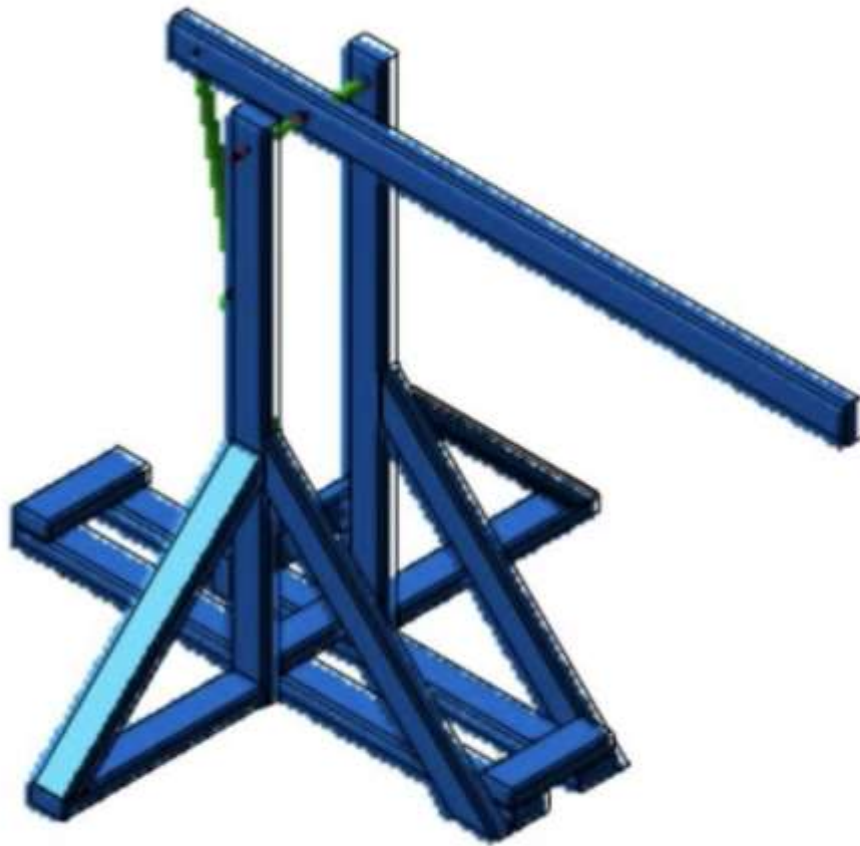
We are a manufacturing business and we work according to the orders that we have.

We are open to the public from 8:00am to 3:30 Monday to Thursday.



Les Moore Challenge

We know that we don't have much time left until our convention but we are hoping to have as many clubs as possible participate in this fun challenge. This year we propose to have a model of a Romain Trebuchet with an addition of an air cylinder to power it 350 long 40mm ID. They are going to throw tennis balls over our lake approximately 27m and hit a target. The challenge of this will be the loading, holding and targeting the tennis balls, which is up to your own interpretation. The pressure of the air cylinder will be limited to 50 PSI. Below is a mock up to help you along.



P3

Duty Operators and Drivers

The Club is looking for Drivers and Duty Operators to assist with running for the public on Sundays .

Contact or give your CV to Warren K or Bruce Mc, they would love to hear from you.

No, if you get a Club Drivers License you won't be able to operate the loco below but you will be able to carry passengers around the Club track at Memorial Park.

Believed to be at Kuatuna, Corromandel. Not to many road cones there!!!!!!



Captain's Report – November 2024



The past month has been a busy one for the Tauranga Model Marine & Engineering Club.

We have had our ever-popular Halloween Night Run, which as usual, drew large crowds and some amazing costumes, both from the public and our volunteers. A MASSIVE THANK YOU to everyone who help out with the planning, decorations, catering and running, it would not have been the success it was without all the effort that was put in. A shoutout too to the Cambridge Club members who came over and helped us run too. It was great to see you guys, thank you.

The second weekend of November was our Open Weekend. We had a great display of projects and toys. It was amazing to see the raised track back in operation with the smaller gauge engines running. We had a great afternoon pulling the public and the weather was lovely. It was also nice to see such a varied display of our hobby on view, from traction engines to boats and even a full-size locomotive headlight, it is quite amazing what you guys have got squirreled away in sheds.

We have also had a few special runs over the past month, one in particular from the people who volunteer for Good Neighbour. This is a charity which has groups all over New Zealand who help out in the community in a variety of ways from helping kids in schools to develop useful skills to feeding the elderly and those who are unable to get out and about. They even supply firewood to people in the colder months, they encourage people they help to help themselves too, so it was a great mix of people who turned out for their Christmas party. Thank you to the volunteers from our club who came down and ran the trains for those guys, there were some really happy people both young and not so young.

In terms of upcoming events, we have a playday on the first Saturday of December. Hopefully the weather will play nice, and we can make good use of the track. After that, it is more of a wind down towards the Christmas break and then the lead up to the convention over in Hamilton.

We are hoping that we can bring home the Les Moore Trophy to Tauranga in the upcoming convention challenge... get into those sheds and design a trebuchet. We need to be able to propel a tennis ball 27 metres over Hamilton club's lake and hit a target. Power is by air ram (50psi). The challenge details and dimensions are included in the newsletter. Warren K is also going to email out the details so you will all get a copy.

Jo

Humour :

Recollection of an interview with Spike Milligan where he talked about his early days in the British Army.

Scene: Bexhill Army Camp 1947. Corporal Milligan has been told to report for operations at Bexhill, situated between Eastbourne and Hastings.

He arrives and reports to the Sergeant Major.

Milligan: "Corporal Milligan reporting for duty, Suh".

Sergeant Major: "Milligan.....Good grief. What in god's name has happened to you man? Look at the state of you.....Been in some sort of accident"?

Milligan: "No, Suh. I caught the number six twenty train, Eastbourne to London, and I had a bit of trouble getting off.....Suh".

Sergeant Major: "Well....."?

Milligan: "Um.....the train doesn't stop at Bexhill, Suh".



FreeCAD is an Open Source 3D Design and Drawing Software, free for anybody to use.

It has taken a number of years to develop to this stage by programmers around the world.

The latest development serial number is 0.21.1 and is very similar to AutoCAD, SolidWorks, Autodesk Fusion 360, and several other CAD systems.

Very soon it will be available as version 0.22, also to be known as Version 1.0, which has many new features compared to the current released version.

FreeCAD installs on your computer and its files remain on your computer, not in the cloud.

Once downloaded there are a few preferences to set. Select Edit, Preferences, Display, Marker size 9px. This makes the dots bigger to aid selection by cursor. Now select: Workbenches, Start up workbench: Part Design. The programme will now always start up in the Part Design workbench, ready for your input. Most of the input will be through the Part Design workbench, which will automatically switch to Sketcher for drawing input as required for sketches, then back to Part Design for modifications like Pad (extrude) Hole (pocket) etc..

Note that FreeCAD has a list of workbenches, which allow a workbench selection to provide differing features, for example the Arch workbench has features suitable to building or architecture, Sketcher will be used for your 2D drawing on a plane to suit the view you draw, an Assembly workbench provides the ability to assemble various parts of your model, positioning bolts in holes, or mating a part with other parts, etc. The TechDraw workbench is used to provide a drawing sheet of your creation, with dimensions and differing views, like front, side, top, isometric etc.

All 3D Cad programmes start a drawing firstly as a 2D sketch, fully dimensioned and constrained, which when constrained to a position from the Origin, can be extruded to be a 3D entity. The Origin is the dot showing in the centre of the screen that is a point in space, similar to the Earth in our Solar System. That entity can then be further modified to eventually become a solid model on screen. The entity can be rotated in any direction to view from any angle. Most modifications involve the addition of a further sketch, suitably dimensioned and constrained, until a totally constrained final sketch completes the drawing of a 3D solid body, saved as a FreeCAD file, or exported as a file suitable for 3D Printing or Laser Cutting.

First project:

Double click the Freecad icon.

Click File-new icon.

Click Create Body, create sketch.

Select a plane (front, top or side), on the screen or from the panel on the left), Click OK.

Click the Grid icon if you prefer. The grid defaults to 10mm but can be set to any value, grid snap optional.

Note the workbench has changed to Sketcher

The Drawing icons are in red, the constraint icons are in red also.

The Constraint icons fix the dimensions and positions in space of all drawing items, circles, rectangles, vertical, horizontal, angles, diameters, and many other drawn items, until the sketch is fully constrained, when the sketch will change colour to green.

The drawing icon selected can be: Line, Rectangle, Circle, Arc, Polyline ('m' cycles options), Polygon, etc.

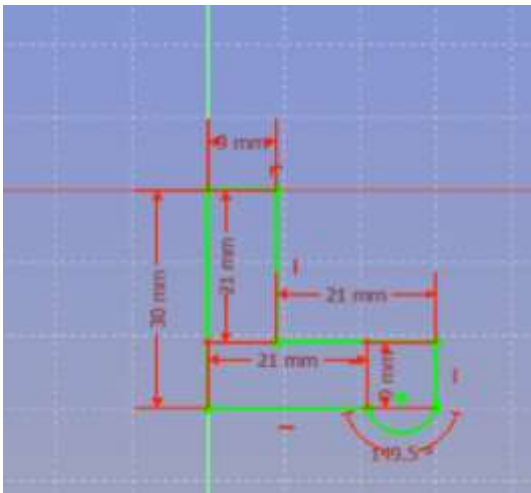
Click once, your drawing icon (line, circle, rectangle) then move your mouse to the origin till its colour changes, click and hold, move the mouse to approx size and release.

Just past the padlock icon you will find a horizontal and a vertical icon to set line length. (hovering the mouse over any icon you will see an explanation of its function).

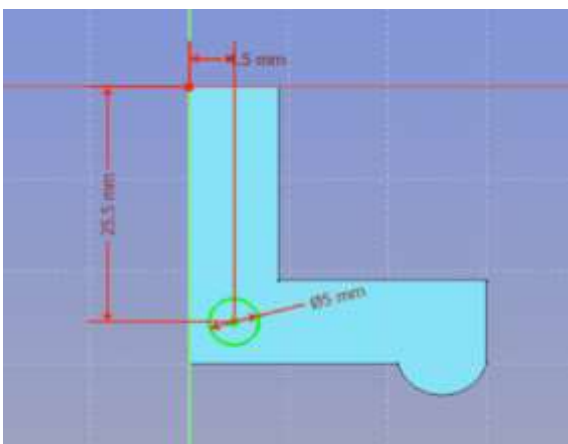
When the sketch is fully constrained (with no degrees of movement possible), click Close.

Your sketch is now ready for modifying (pad, hole, etc)

Your 2D drawing must be a closed entity, e.g. a rectangle must have all vertices touching. Another closed sketch within the closed entity, e.g. a circle, will extrude as a solid rectangle with a circular hole within.



The Sketch at top left shows the 2D shape of the Bell Crank. A bell crank converts vertical motion to horizontal motion. I need 36 of them to open valves on the Calliope project. The sketch is shown in green as it is fully constrained. The Origin is positioned at the point where the red and green lines converge. The red line is the XY axis, the green line is the XZ axis. Note the red constraints indicate all the dimensions, as well as the arc set at 149.5 degrees. At this point the sketch is closed and extruded to the required depth of 9mm



This picture is showing the 2D outline after extruding to 9mm. Barely visible is the positioning of a 5mm circle sketch towards the bottom as shown. This will become a hole when the sketched circle is pocketed through the 9mm vertical leg of the bell crank.

LIZ VAN WELIE
AQUATICS

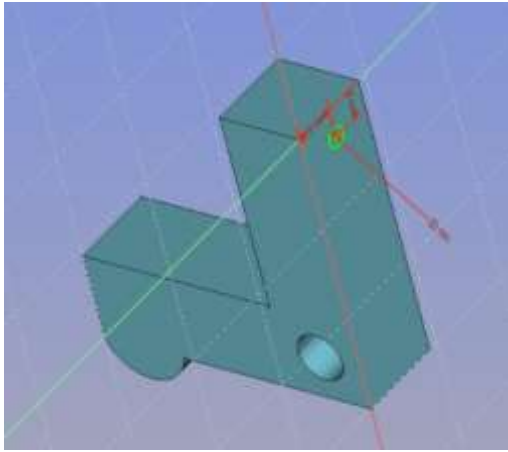


From learn to swim to competitive swimming and everything in between - we develop swimmers.

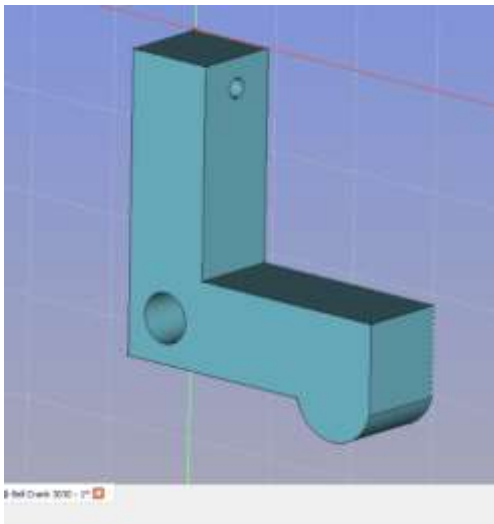
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This picture shows the solid model Bell Crank with the fully constrained sketch of the small 2mm hole which will have a string attached to each valve to admit air for blowing the musical note from the appropriate pipe of the Calliope or Pipe Organ.



And here is the finished solid model of the Bell Crank. The file is saved in FreeCAD, and can be edited at any future time. It has been exported as a STL file for 3D Printing. Alternatively it could be exported as a DXF file for Laser Cutting.

TMMEC Club

Operators Roster to end 2024
(note revised)

17th November2024	Warren Karlsson
24th November2024	Bryan Fitzpatrick
1st December2024	Jason Flannery
8th December2024	Bruce Bocock
15th December2024	Joanne Knights
22nd December2024	Bruce McKerras
29th December2024	not open



Web Development 
Graphic Design 
www.redeyedesign.co.nz

The logo for MITRE 10. The word "MITRE" is in white, bold, uppercase letters. The number "10" is in orange, with a stylized circular graphic element inside the zero.

Halloween 1st Nov 2024

Just a selection of pics from the Halloween evening run. Thanks to Peter D for his efforts.



No captions required.





MORGANSTEEL

Steel Fabrication & Engineering Specialists www.morgansteel.co.nz

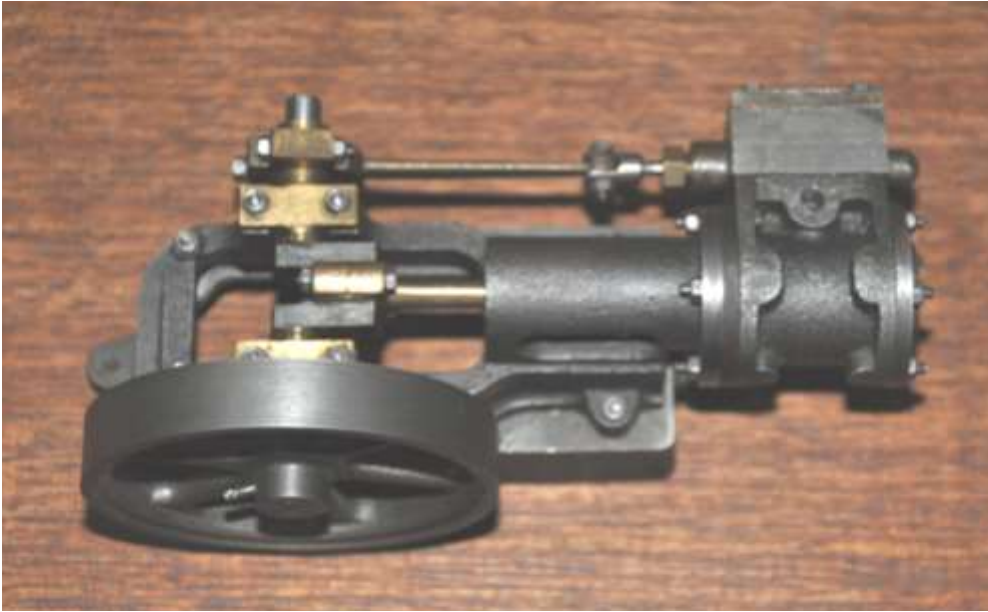
Open Weekend November 2024

Barb and I didn't get to the Track till mid afternoon and were met with a heap of Club Members plus the odd visitor. Peter D kindly has provided the following pics which I believe require no captions, thanks Peter.





Show and Tell




Ross C showed his first 2 model engineering attempts. He started with the small (left) one first and then went onto the larger model. These were purchased as kits with raw castings supplied.



David I has taken on the restoration and completion of this 2 1/2" loco which has been "been at the back of a cupboard" at the Club for some years

THANK YOU  TECT

for being at the heart
of our community


www.tect.org.nz



Russell P has all but completed his track signal lights.



Jig to hold clock mechanism whilst under repair, Roy R.

Tool to allow releasing the energy of clock springs. Roy R



Peter L displayed his elbow engine.



Russell P has built this jig to machine track rail for machining lead into points.



From the Cave at Katikati

Whilst I didn't get to the Halloween Evening run and spent a limited time on Saturday at the Open Weekend from the comments I heard and the general bustle in the "camp" one had to appreciate the effort which had gone into making both these events "happen". Largely most of this effort had come from Warren K and I would like to thank and congratulate him for his efforts. Yea, others helped also, so it's a Team effort but Warren is an asset to the Club that we need to cultivate. Things don't just "happen" someone has to push the right buttons.



Roy

Letter to the Editor

Thank You!

Stewart and Tracy Walker would like to extend a heartfelt thank you to the Club and all its members for encouraging, teaching, and inspiring Trent. We're thrilled to share that Trent has just finished Year 12 on a high, winning the award for 1st in Mechanical Engineering and also the Technology Industry Incentive Award. We are incredibly proud of him and recognise that he wouldn't have reached this point without the support of the Club members who nurtured his passion. Thank you for taking the time to be a vital part of his journey!

Stewart & Tracy



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The views and opinions expressed in articles contained in this magazine are those of the author (s) and do not necessarily reflect the policy, position or opinion of the TMMEC or its officials.



TMMEC CLUB CALENDAR 2024

v2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Mon	1			1			1						Mon
Tue	2			2			2			1			Tue
Wed	3			3	1		3			2			Wed
Thur	4	1		4	2		4	1		3			Thur
Fri	5	2	1	5	3		5	2		4	1		Fri
Sat	6	3	2	6	4	1	6	3		5	2		Sat
SUN	7	4	3	7	5	2	7	4	1	6	3	1	SUN
Mon	8	5	4	8	6	3	8	5	2	7	4	2	Mon
Tue	9	6	5	9	7	4	9	6	3	8	5	3	Tue
Wed	10	7	6	10	8	5	10	7	4	9	6	4	Wed
Thur	11	8	7	11	9	6	11	8	5	10	7	5	Thur
Fri	12	9	8	12	10	7	12	9	6	11	8	6	Fri
Sat	13	10	9	13	11	8	13	10	7	12	9	7	Sat
SUN	14	11	10	14	12	9	14	11	8	13	10	8	SUN
Mon	15	12	11	15	13	10	15	12	9	14	11	9	Mon
Tue	16	13	12	16	14	11	16	13	10	15	12	10	Tue
Wed	17	14	13	17	15	12	17	14	11	16	13	11	Wed
Thur	18	15	14	18	16	13	18	15	12	17	14	12	Thur
Fri	19	16	15	19	17	14	19	16	13	18	15	13	Fri
Sat	20	17	16	20	18	15	20	17	14	19	16	14	Sat
SUN	21	18	17	21	19	16	21	18	15	20	17	15	SUN
Mon	22	19	18	22	20	17	22	19	16	21	18	16	Mon
Tue	23	20	19	23	21	18	23	20	17	22	19	17	Tue
Wed	24	21	20	24	22	19	24	21	18	23	20	18	Wed
Thur	25	22	21	25	23	20	25	22	19	24	21	19	Thur
Fri	26	23	22	26	24	21	26	23	20	25	22	20	Fri
Sat	27	24	23	27	25	22	27	24	21	26	23	21	Sat
SUN	28	25	24	28	26	23	28	25	22	27	24	22	SUN
Mon	29	26	25	29	27	24	29	26	23	28	25	23	Mon
Tue	30	27	26	30	28	25	30	27	24	29	26	24	Tue
Wed	31	28	27		29	26	31	28	25	30	27	25	Wed
Thur		29	28		30	27		29	26	31	28	26	Thur
Fri			29		31	28		30	27		29	27	Fri
Sat			30			29		31	28		30	28	Sat
SUN			31			30			29			29	SUN
Mon									30			30	Mon
Tue												31	Tue

- Sunday Running 10 - 3pm
- Club Play Day, Training
- General Meeting 7pm
- Engineering Discussion 7pm
- Committee Meeting 7pm
- Annual General Meeting

- Open Weekend
- CAD, 3D Printing, 7pm
- Matariki Night Run
- Christmas Party
- Halloween Night Run
- Closed / Cancelled

- Hamilton Open 16 March
- Manakau Open 1 June
- Keirunga Park Open 25 Oct
- EBOP (Whk) TBC
- Mana Ariki TBC
- Cambridge Night Run TBC



Santa making toys and then delivering them to the kids. I wonder what he is making for me???????????????

