



Risborough and District
Model Railway Club

Jan-Mar 2023 Winter

FOOTPLATE



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WELCOME

In November we had our AGM and the minutes are on the website and have been sent out to you all via email. David Lane has decided to step down as a Trustee, and we thank him for all the work he has done for the club. Otherwise

business as usual.

We also had a display of wagons for both Aylesbury projects. The Aylesbury Town Wagon Project is coming to an end, and we had most of the wagons on display. There are a few more wagons just being finished off and we should have those soon. Our thanks to Ray for organising this. Aylesbury LNWR stock is progressing well, see page 13.

A couple of weeks after the AGM we had an interesting talk by David Moore on 3 unusual railways. This was well attended and we saw a different group of members. The next talk will be by David Lane on the "The early History of the Wycombe Railway 1846-1906ish!". This will be January 27th 2023.

Our show in Haddenham was very successful so this will be repeated on Saturday 30th Sept 2023.

Steve L and I visited QRS recently and reorganised the coach so we can get a couple of Aylesbury Town boards up for track laying and scenic work. We will be arranging working days, the first of which will be Tuesday 10th Jan, but we will also arrange weekend meets.

Paul

From the Internet

1923 Pick up Goods train - between Reading and Swindon

<https://www.youtube.com/watch?v=W0lpeg2oNy0>

Short Milk and Fruit Van Train on the MSWJR Line 1923

<https://www.youtube.com/watch?v=fhCxIsoLi78>

Building the Worlds Smallest Escalator (That WORKS)

<https://www.youtube.com/watch?v=T7116ccMaVI>

60007 'Sir Nigel Gresley' with a SPECTACULAR departure from London Kings Cross Station! 17/11/22

<https://www.youtube.com/watch?v=GO0wdsdIS2M>

Laying Track on the Stoddard Hill Farm Railway

<https://www.youtube.com/watch?v=oqiy2BEgYOI>

David Elliott talks about the P2 cylinder monobloc.

<https://www.youtube.com/watch?v=2b8kDhz7IFw>

Great Central Reunification takes a leap forward. A60 bridge? Done!

<https://www.youtube.com/watch?v=NlMcRE13zfk>

Are these realistic shop fronts really made from paper!? Tiny N gauge paper shop fronts

<https://www.youtube.com/watch?v=wILHSzFmjKA>

Front cover: The new tram system in Lund, Sweden, Oct 2022. Paul

Making water for Inchrya Mill

Part 2: Ripples, waves and waterfalls

In part 1, we laid the main river water using 2 part casting resin. Once cured, we wanted to add ripples, waves and our weir waterfall.



To do this, we have used the Woodland Scenics 'Water Waves'. This is a single part clear resin that can be shaped into ripples, waves and also create vertical sculptures. It's proven very versatile. Our first task was to practice on our test ponds. This isn't always about getting it right but more often, finding out what not to do!

Happy with knowing the right technique & finishes to use, the 'Water Waves' was then applied to the main boards. The weir was formed by applying a solid wedge of resin with a spatula before forming the weir waterfall ribbons with an old stiff brush.

Ripples & waves were then added on the river surface, again with the old stiff brush to create the contoured lines, dissipating as it flows away from the weir.



Flow lines were also added around the sluice gate.
At the power house, an overflow discharge pipe enters the river so a vertical flow was added along with surface ripples.



Downstream, waves and ripples were added around rocks and as a flow out of a



culvert head wall. The waves and ripples here being contoured around the rocks along the flow rather than spreading out across the flow as done upstream in the calmer water.

The final task, added after all of these clear waves were cured, was to mix some white & light grey ashes powder into the resin and create the “white horses” of foaming waves. This was then applied sparingly to the weir and parts of the clear ripples, adding the final texture and colour dimension to our model river.

Graham

Articles for Publication in Footplate

Articles can be on any subject including, model reviews or construction, places you have visited, your own layout etc, and should be sent at least 1 month before publication dates, i.e. beginning of March, June, September and December for publication in April, July, October and January. Plain text, no formatting, photos as high a resolution as possible.

Mike Tricker's S-scale layout, currently under construction

Here are some photos of the S Scale layout Mike Tricker is building.



Above: Scratch built model of the B&O float bridge at 26th Street, New York using the club's laser cutter. The original bridge has been preserved with a restaurant at the end rather than a car float





Above and lower left: Freight trains at 42nd Street on Mike Tricker's S-scale layout. The locomotives are brass imports weathered by Mick Moignard. Most of the buildings on the layout are laser cut.

Club refreshments

Tea and coffee are free. The cups at the church hall are a bit small so bring your own if you like large mugs of tea. We have a good selection of biscuits and chocolate biscuits all at 30p each.

Please make sure you wash up any mugs and spoons used and return them to the correct cupboard or drawer.

Make up for models – weathering landscapes

One thing for certain is that real life is not clean. Roads, gardens, houses and factories succumb to a various layers of dust, soot, grime and eventually moss, mould and other live vegetation. You also get skid and wheel marks from movement of rubber tyres over hard surfaces.

So looking at our Paper Mill and it's external concrete yard slabs, it's obvious we needed to apply some Make up.

This is something I really enjoy doing and have discovered that weathering powders respond really well to large make up brushes. I've not 'borrowed' these but purchased online for a very reasonable price with next day delivery.



Weathering powders for this come from Abteilung, MIG and Humbrol. A blend of different shades to add tone and variation. Darker colours lurk in the edges and around structures mixed with a hint of green mould & moss. Wheel tracks and loading areas highlighted with further darkening 'sweeps'. Nothing too distinct but simple vague tonal build up.





Graham

Laser Cutting Materials

In stock we have:

0.5, 0.75, 1, 1.5 & 3.2mm white plastic (Rowmark) with some 1.5 & 3.2mm in black. Sheets are 1220 by 610mm.

Clear acrylic in 0.5 & 1mm. Sheet sizes vary but some are 1000 by 1000mm.

MDF in: 1.5, 2, 3.2, 4 & 6mm, sheet sizes are 1220 by 600mm

The max. size the cutter takes is about 300 by 500mm. The larger sheets will be cut down to approx. A3 or A4 and we will calculate the prices.

Aylesbury LNWR Update

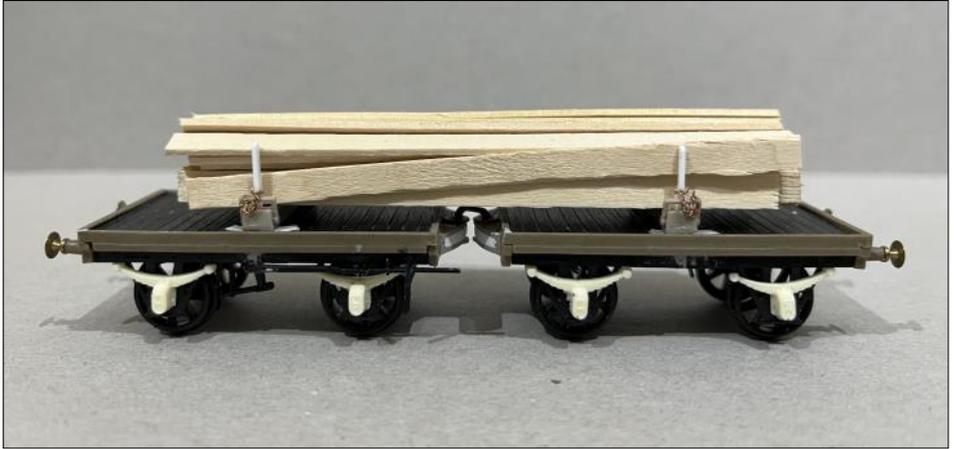
We are making progress on the stock. Another loco has joined the fleet, a 2-2-2 tender engine, Pandora. This was a member of the Problem class of locos. It was built from a whitmetal kit, probably Gem (or possibly K's) to a good standard and Mick will convert it to EM and add a DCC chip. In reality this loco would have been withdrawn a few years before Aylesbury is set, however, we can be flexible and it could have been brought out of retirement to due a shortage of other stock. Similar locos also had a second life pulling inspection coaches.



Steven Walker has completed a white metal MR 3 plank wagon although it still needs a load to complete it. The kit was a donation to the club. Ken is making good progress with a K's full brake.



I have been busy converting a Ratio D48 rail wagon (twin bolster) to a D13 timber twin bolster. This is done by shortening the body and wheel base, otherwise the wagons are very similar.



Above: D13 converted from a Ratio D48. The wagon body and wheelbase both needed to be reduced and longer stanchions fitted. This should be painted by the time you read this. The timber load is from Costa! This will be chained down when finished



John Compton is making progress with coaches. On the D297 all third, he has managed to make & fit decent door & commode handles, painted the Mansell wheels with teak colour, also the footboards in Humbrol natural wood, finished the interior & added a few passengers. Lettering is needed to complete the model.



John has also got on well with the two D359 Brakes; they are pretty well assembled & now in primer.

Ken's full brake, built from a donated K's kit, is now ready for painting. Also under construction we have a medium cattle wagon, single bolster wagon and 3 goods brake vans.

Once the current batch of models are completed, I will assess what is needed next. I will probably order some London Road Models etched kits for collection at Railex, so we will need some volunteers to make those. Other kits I will get from Mousa Models which will be resin and etched brass. We also still need some loads made, sacks, barrels, crates etc, some with tarps over the top.

We are making good progress with this project.

Paul

Trainsporters Stock Boxes

As we are now getting a good selection of stock for Aylesbury LNWR, we needed a stock box or two to keep it all in. James told me about Trainsporters boxes so I checked them out. They make boxes suitable for 7 and 4mm stock using Really Useful Boxes as the base and adding a foam insert. For 4mm stock there are two sizes of box which will take 32 or 40 wagons. The cost per wagon for either size is about the same but the smaller box is a much better size. It is a 10l box with six slots 335mm long and two slots 280mm long. The larger box uses the 20l box and has 10 slots 335mm long. So double the volume but only 25% more storage space.



The boxes are available in two variants of insert. Either a full height, 53mm insert or two layers of 30 and 23mm. I thought this split foam insert would work better for the low sided wagons (see above) so bought one of each. Wagons up to 5 planks high will fit into the top layer of the split layer box while taller wagons, coaches and locos will fit in the other box or the split level box with both layers removed.

You also get some plastic tube shaped bags and silica gel with the boxes and a



large label for the outside. The stock is a loose fit in the slots so small details like the door stops will not get knocked off putting stock in the box. So overall a very well thought out product.

I ordered the boxes on Saturday and they were delivered on Sunday afternoon. It turns out that one of the people involved with the company lives in Tring and as the post is a bit unreliable at present he was dropping off local orders. Good service!

Paul

Pendennis Trophy

This year the Pendennis Trophy for member of the year was awarded to Ray Gomm for his organising of the Aylesbury Town Wagon Project. This project was to provide some of the ordinary vans and opens needed for our P4 layout. It was started four years ago and is now coming to an end.



Some Simple Narrow Gauge Wagons

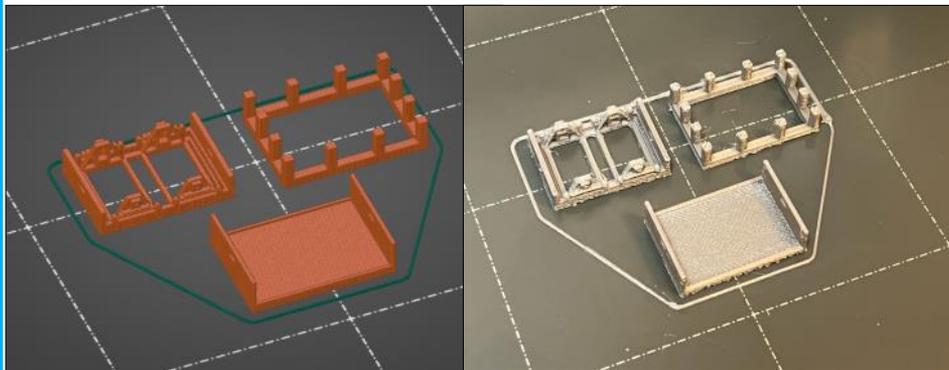


Fellow club member Mark Riddoch and I are building a mixed gauge industrial layout (“Peter Hamble”) set in wartime Britain. Both of us have a major interest in building loco kits, in my case almost exclusively with 4 wheels - more seems an extravagance, but neither of us has much experience in OO9. So naturally we started with OO9 loco kits. We now have ample (more than ample some would say) narrow gauge locos, admittedly none actually finished and a good few still ‘flat’ but it’s still progress and thoughts turned to some rolling stock. We have a few plastic and brass kits between us, and again a few are built even if nothing is finished. (This may be seen as a continuing theme but there is a lot of planning, and coffee, and cake that goes into this layout).

Visiting Brighton earlier in the year I was inspired by what appeared to be a very basic wagon on the Volks Electric Railway that was used for “works” purposes (sadly I didn’t get a picture) and that led to thoughts about a works train. The narrow gauge on our layout has specific roles, one of them being to run trains end to end to provide activity while the operators are, well, fiddling, in the Fiddle Yard and I thought a works train might fit in well.

Mark and I have also invested in a 3D printer, in our case the filament (rather than resin) type. This does not generally produce such a smooth and detailed finish as a resin printer but can produce very strong parts and is clean and cheap to run. I decided to see if I could produce some simple rolling stock using the printer.

Using Fusion360 for the design, and through some trial and error, I designed a chassis and a floor as two separate components that clicked together. Although in practice I used a spot of superglue to hold them together for painting.

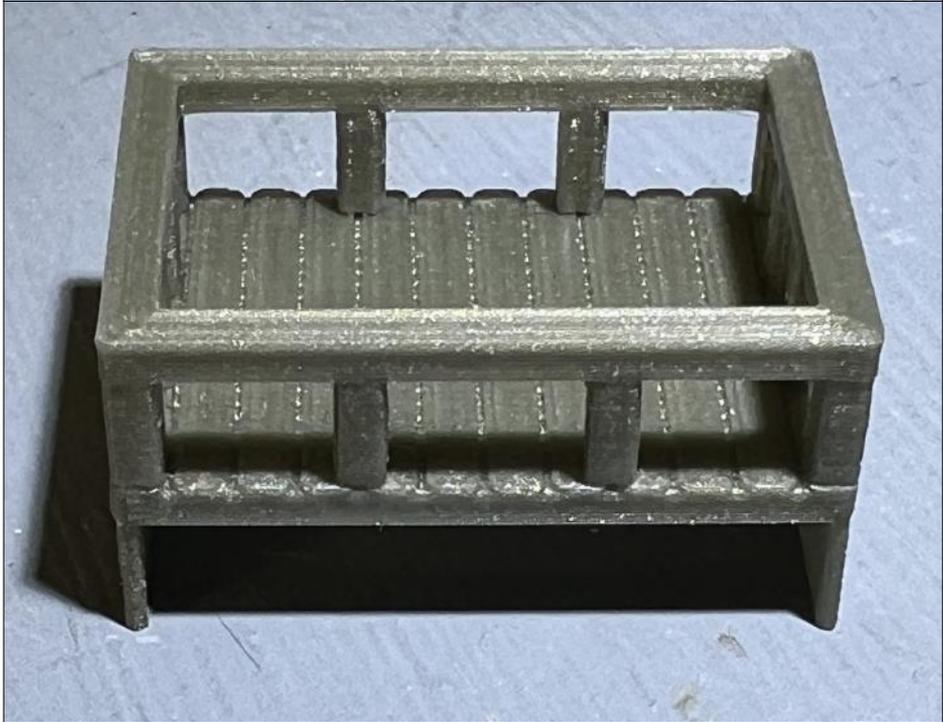
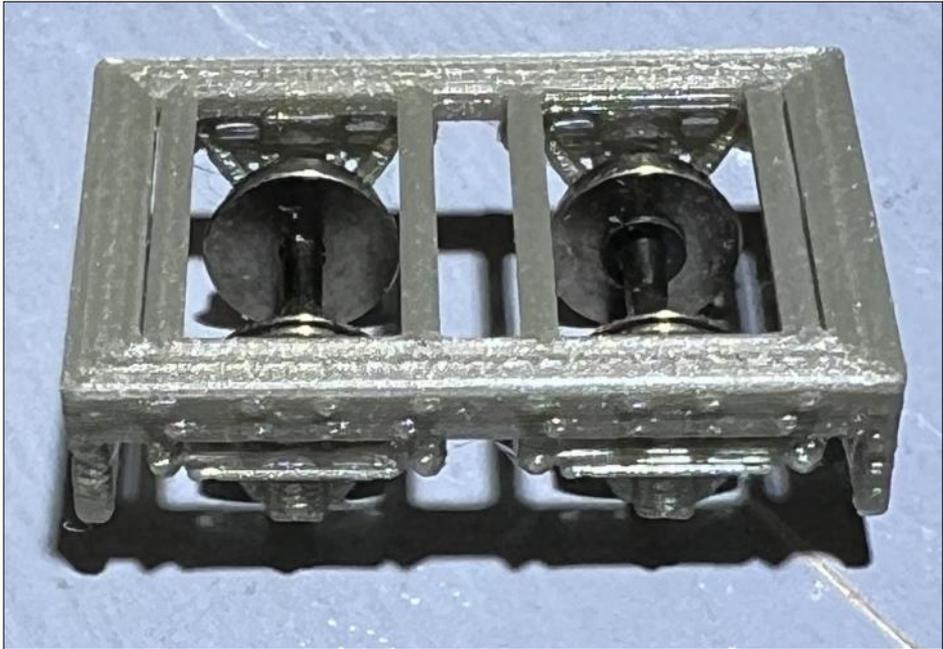


Above: The three parts of the design, as designed in Fusion360 and the final articles on the printer. With some careful design the change of a single parameter in a table within Fusion360 could output any (reasonably) sized chassis and floor that I wanted.



Above and right: the assembled chassis.

The chassis incorporated holes for pinpoint bearings, I found no need to insert brass bearings and, like most plastic kits available, the wheels run in the plastic quite successfully. In addition I created suitably sized and positioned slots to





take Greenwich couplings (left, photo courtesy of tramfabriek.nl), using the ones intended for NEM pockets. These in fact hold the two parts of the chassis together very securely.

Producing an open “wooden” frame was very straightforward by comparison. In this case with a variable height parameter. I used two different heights to produce combinations for my four wagons. These were simply superglued to the floor. In what seems fairly standard practice the bodies were sprayed with Halfords primer and hand painted with Life Colour acrylics, largely the “Weathered Wood” set.

It turned out a pretty straightforward project producing some useful rolling stock at low cost. The materials cost for the wagon (excluding the wheels & couplings - the expensive bit) is 11p worth of filament. It does allow for a bit of practice and trial.



Above: The finished wagon, awaiting its load of clutter



I have also designed and printed a somewhat more advanced design for a “transporter” wagon, running on narrow gauge but carrying a standard gauge wagon, loosely based on those seen on the Leek & Manifold Valley Light Railway. Once I have finished one of these (that theme again) I will, with the editors permission, write about that as well.

I have been very pleased with what is possible with this type of 3D printer, we use it heavily for custom brackets, mechanisms and supports of one sort or another on the layout but producing rolling stock is a definite bonus.

Above: My “standard” wagon with a longer chassis to fit the Severn Models Tippler.

For the technically minded I used a Prusa Mini, with standard software upgrades as they are released and a standard setting of “0.20mm Quality” with Prusa PLA filament.

Roger

Club Diary 2023

January	7	Marlow, Maidenhead & District Model Railway Club Cox Green Community Centre, 51 High Field Lane, Maidenhead SL6 3AX
	27	Club Talk , “The early History of the Wycombe Railway 1846-1906ish!” by David Lane, St Mary’s Church Hall, Princes Risborough, HP27 9AN
February	4	NMRA Winter Meet, Stokenchurch Community Centre, Bartholomew Tipping Lane, Stokenchurch HP14 3RX
	18	Risex , Wades Centre, Stratton Road, Princes Risborough, Bucks HP27 9AX
March	4	Abingdon & District MRC, Abingdon & Witney College, Wootton Road, Abingdon, OX14 1GG
	18-19	Alexandra Palace, Alexandra Palace Way, London N22 7AY
	24	Wheeltapper Competition
April	8-10	York, Knavesmire Stand York Racecourse YO23 1EX
	22	High Wycombe & Dist. MRS, Cressex Community Centre, 203 Cressex Road, High Wycombe HP12 4PZ
May	13-14	EM Gauge Society, Bracknell Leisure Centre, Bagshot Road, Bracknell RG12 9SE
	27-28	Railex , Stoke Mandeville Stadium, Harvey Road, Aylesbury HP21 9PP
June	10	Marlow, Maidenhead & District M.R.C. Knowl Hill Village Hall, The Terrace, Knowl Hill, Reading RG10 9XB
Sept	30	Haddenham Model Railway Show ,