

GARDEN

APRIL 2020
ISSUE 308

Rail



**HOW BARRETT ENGINEERING
MAKES ACCESSIBLE KITS**

RESURRECTION

**RESTORING A MODEL VILLAGE AND ITS
GARDEN RAILWAY IN ANGLESEY**



PRETTY IN PINK
**BUILDING MODEL TOWN'S
DELIGHTFUL THATCHED COTTAGE KIT**



Garden Railways

Visit Our Aylesford Show Room!
Open Monday-Friday 10am-4:30pm
Saturday 10am-1pm

Request
 your FREE
 Catalogue
 today!

0800 022 4473

www.dream-steam.com



Locomotives | Rolling Stock | Track | Accessories | Upgrades | Fixing kits & Washers | Chuffers | G Scale Figures | Curve Setters

BRAND OF THE MONTH: BACHMANN

Percy and the Troublesome Trucks Set	90069	£370.00
Toby the Tram	91405	£230.00
Thomas the Tank Engine	91421	£250.00
James the Red Engine	91403	£280.00
Annie Coach	97001	£80.00
Clarabel Coach	97002	£80.00
Emily's Coach	97003	£80.00
Emily's Brake Coach	97004	£80.00
Troublesome Truck 1	98001	£59.50
Troublesome Truck 2	98002	£59.50
Ice Cream Wagon	98015	£70.00
Tidmouth Milk Tank	98005	£39.00
S.C. Ruffley	98010	£70.00
Explosives Box Van	98017	£70.00
Open Wagon Blue	98012	£70.00
Open Wagon Red	98013	£56.00
Sodor Fruit & Vegetable Co. Box Van	98016	£70.00
Sodor Fuel Tank	98004	£70.00
Spiteful Brake Wagon	98021	£70.00



NEW!
LADYBUG
MOTORIZED
EGGLINGER
£160

V Dump Car (Oxide Red)
 G' Flat Wagon with Logs
 "LS" Skeleton Log Car
 "LS" Speeder Orange
 "LS" Speeder PRR
 "LS" Speeder Santa Fe

92504	£46.00
98470	£79.00
98490	£79.00
98253	£90.00
98251	£90.00
98252	£90.00



NEW!
THOMAS AND FRIENDS TANKERS FOR £70 EACH



In stock as of 17/01/2020, please note these loco's may no longer be available, check stocks online or call.
 Please note basic range takes 16 weeks from initial order and other locomotives are in batches.
 Batch dates will be in product description. Locomotives in stock will state instant dispatch available.

PECO

32mm (SM32) Track		
Flexi Track - 12 Pack	SL600x12	£110.00
Flexi Track - 4 Pack	SL600x4	£38.00
Flexi Track - Single	SL600x1	£10.00
Setrack Curve - 6 Pack	ST605x6	£48.00
Setrack Curve - Single	ST605x1	£8.50
Setrack 38 Radius Curve - Single	ST607	£8.50
Setrack 38 Radius Curve - Six Pack	ST607x6	£48.00
Right Hand Point	SLE695	£45.00
Left Hand Point	SLE696	£45.00
Y Point	SLE697	£45.00
Small Radius Right Hand Turnout	SLE691	£45.00
Small Radius Left Hand Turnout	SLE692	£45.00
Wagon Turntable and Crossing	SL627	£20.00
Rail Joiners - 24 Pack	SL810	£3.90

45mm (G45) Track		
Flexi Track - Six Pack	SL900x6	£85.00
Flexi Track - Single	SL900x1	£18.00
Setrack Curve - Six Pack	ST905x6	£45.00
Setrack Curve - Single	ST905x1	£8.50
Setrack Straight - Six Pack	ST902x6	£45.00
Setrack Straight - Single	ST902x1	£8.50
Right Hand Point	SL995	£60.00
Left Hand Point	SL996	£60.00
Point Motor Mounting Plate	PL8	£3.60
Metal Rail Joiners - 18 Pack	SL910	£6.00
Insulating Rail Joiners - 12 Pack	SL911	£3.10
Dual Rail Joiners - 6 Pack	SL912	£6.00

SUMMERLANDS CHUFFER

These highly developed and precision engineered chuff pipes that can bring the real sound of a working steam loco
A wide range always in stock!
 Specials can be ordered on request

£29
 inc. P&P

ROUNDHOUSE

In Stock Now*		
Bertie Maroon, 45mm	£675	
Lady Anne Maroon, R/C 32mm	£1,625	
Sammie 45mm	£675	
Little John, Yellow, Chevron Buffers	£602	
Bulldog Victorian Maroon, Chevron Buffers	£647	
On Order		
Russell Due July 2020		
Katie Due Aug 2020		
Lilla Due Aug 2020		

Please note all loco's 'on order' can be altered to your own specification requirements
 Deposit of only £200 required

MSS

Maroon Tender (32mm/45mm)	911403	£55.00
Green Tender (32mm/45mm)	911405	£55.00
Black Tender (32mm/45mm)	911401-BL	£55.00
Blue Tender (32mm/45mm)	911402-BL	£55.00
Maroon Passenger Coach (32mm/45mm)	911201	£55.00
Blue Passenger Coach (32mm/45mm)	911201BL	£55.00
Log Wagon (32mm/45mm)	911501	£55.00
Goods Van (32mm/45mm)	911101	£55.00
Guards Van (32mm/45mm)	911001	£55.00
Coal Wagon Grey (32mm/45mm)	911505	£55.00
Coal Wagon Unpainted (32mm/45mm)	911505-1	£55.00
Pair of Flat Bed Wagons (32mm/45mm)	911301	£55.00
Straight Track	910003	£35.50
Curved Track	910005	£35.50
Left Hand Point	910001	£25.40
Right Hand Point	910002	£25.40
Side Tank Locomotive (32mm/45mm)	909003	£210.00
Saddle Tank Locomotive (32mm/45mm)	909013	£240.00
Side Tank Locomotive Kit (32mm/45mm)	909011	£200.00

SLATERS

Festiniog Railway Ashbury First Class 4-Wheel Carriage Kit	16C01	£73.50
Festiniog Railway Third Class Ashbury 4-Wheel Carriage Kit	16C02	£73.50
Dinorwic Slate Wagon Kit	16W01	£20.00
Festiniog Railway 2 Ton Braked Slate Wagon Kit	16W03	£26.60
Festiniog Railway 2 Ton Unbraked Slate Wagon Kit	16W04	£27.00
War Department Light Railways K Class Skip Wagon Kit	16W06	£23.00
Dinorwic Quarry Slab Wagon Kit	16W08	£25.50
Dinorwic Quarry "rubbish" Wagon Kit	16W09	£25.50
Slaters' Mek-Pak	0502	£5.00
Slaters' Mek-Pak Brush	0505	£3.70

DSW

Upgrade Cylinders	DSUPCYL	£72.00
Ceramic Gas Burner Set	DSUPGBS	£90.00
Three Wick Meths Burner	DSUP3WMB	£45.00
Dead Leg Lubricator	DSUPDLDL	£29.00
Steam Regulator Kit	DSUPSRK	£38.00
Small Brass Chimney Cowl	DSENSMCWL	£4.00
Brass Cab Hand Rails	DSENCB	£4.20
Brass Side Tank Hand Rails	DSENSTHR	£5.20
Brass Smoke Box Hand Rails	DSENSBXHR	£3.10
Cylinder Covers	DSENCYCV	£12.50
Brass Sand Boxes	DSENSBX	£12.50
Brass Tank Tops	DSENTTT	£9.40
Lubricating Oil	SWLUB30	£3.00
Meths Burner Wick	DSWMB	£1.90
Curve Typed Syringe	DSWCTS	£2.10
460 Steam Oil 500ml	DSW460SO500	£5.50
220 Steam Oil 500ml	DSW220SO500	£5.50
Solid Fuel Tablets	980001	£3.50
Water Filler Bottle	DSWVFB	£4.00
Meths Filler Bottle	DSWMFB	£3.00

MAMOD

Telford	MTLGO	£452.00
MKIII	MK3	From £353.00
Saddle Tank	MST	From £353.00
Brunel	MBrunelOG	£460.00
Boulton	1351BO	From £325.00
Tram	1351TR	£520.00
Brunel Goods Set	BGS-CC-N	£520.00
Tender	MTDR	£45.00
Tanker	MTNK	£42.00
Goods Wagon	MGWN	£49.50
Guards Van	MGVAN	£75.00
Telford Tender	MTDR-T	£45.00

DON'T FORGET YOUR MAMOD
ELECTRIC LOCO CHARGER
£35

MSS 3/4 SIDE TANK - £300
MSS TANKER - £55
MSS TANKER KIT - £53

Set-a-Curve
 Available in 32mm and 45mm
 with a wide range of Radii

£15



facebook

twitter

Dream Steam Ltd, Ground Floor Suite, Vanguard House, Mills Road, Aylesford, Kent, ME20 7NA

Call us: 0800 022 4473 or send an email to sales@dream-steam.com

www.dream-steam.com | sales@dream-steam.com | @dreamsteamworks | facebook.com/dreamsteamworks

GARDEN Rail

Incorporating GARDEN RAILWAY WORLD
Issue 308 • April 2020

Publisher: Steve Cole

steve@warnersgroup.co.uk

Editor: Phil Parker

phil.parker@warnersgroup.co.uk

T: 07879 664 383

Design: Neil Sayer

Advertising: Bev Machin

bevm@warnersgroup.co.uk T: 01778 392055

Hollie Deboo

hollie.deboo@warnersgroup.co.uk T: 01778 395078

Production: Allison Mould

Allison.mould@warnersgroup.co.uk T: 01778 395002

Advertising Designer: Amie Carter

amiec@warnersgroup.co.uk

Marketing Manager: Carly Dudge

carlyd@warnersgroup.co.uk

Contributors: David Alexander, Mick Blowfield, Ben Bucki, Andrew Charman, Daniel Cousins, Nick Midgley, Dave Skertchly, Andrew Storey, Mark Thatcher

Cartoon: Barbara Martin

www.warnersgroup.co.uk

©Warners Group Publications plc 2020

All rights reserved. Material is only accepted on the understanding that there are no copyright restrictions. Although every care will be taken, all materials submitted are at the owner's risk and Warners Group Publications cannot be held responsible for loss or damage however caused. Copyright on all materials in this magazine remains vested in the Authors and Warners Group Publications. Reproduction of the whole or any part is forbidden without relevant permissions. Warners Group Publications and the Editor cannot be held responsible for any error that might occur in text or advertisements. Reliance placed upon the contents of the magazine is entirely at the reader's own risk.

Printed by: Warners Midlands plc

Distribution

News Trade – Warners Distribution

T: 01778 392417

Model Trade – Warners Trade Sales

T: 01778 392404

Overseas Agents – Japan

Erei Co, Ltd 1-1-12 Toyotama-kita,

Norma-ku, Tokyo 176

Subscriptions

T: 01778 392465 F: 01778 421706

(UK & Overseas)

subscriptions@warnersgroup.co.uk

UK: £57.00 12 issues (1 year)

(UK DD: £11.99 Quarterly, £49.99 Annually)

Rest of Europe: £71.00 12 issues (1 year)

Rest of World: £83.00 12 issues (1 year)

You can now manage your subscription online at:

www.world-of-railways.co.uk

www.warners.gr/gardenrailrenewals

Back Issues

T: 01778 391180

subsacccetteam@warnersgroup.co.uk

West Street, Bourne, Lincolnshire PE10 9PH

Contents

IN SHOP • DIGITAL • MOBILE • APP

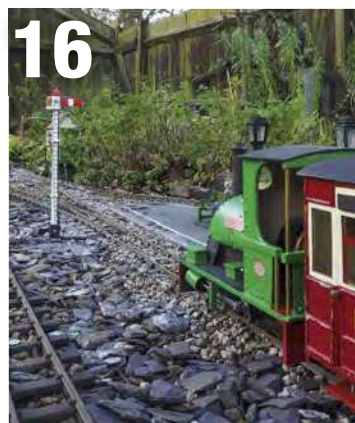
- 4** VIEW FROM THE END OF THE PLATFORM
- 6** ANGLESEY MODEL VILLAGE
Ben Bucki
- 16** BUILDING AN AUTOMATIC SEMAPHORE SIGNAL
Dave Skertchly
- 22** PRETTY IN PINK – DON'T YOU THINK?
Mark Thatcher
- 30** GAUGE 1 LOCO? BUILD A KIT
Andrew Charman
- 35** A NEW LEASE OF LIFE FOR A SMALL SIGNAL BOX
Daniel Cousins
- 37** SEA LION AND THE 3D PRINTED BEARS
Nick Midgley
- 44** THE NATIONAL GARDEN RAILWAY SHOW
Mick Blowfield
- 46** BUILDING THE TENMILLE S.R. 25 TON BOGIE BRAKE VAN
David Alexander
- 48** PRODUCT NEWS
- 52** DIARY DATES
- 58** MAILBOX
- 62** THE JURBY LIGHT RAILWAY & NAVIGATION Co.
Andrew Storey



Garden Rail: Published monthly by Warners Group Publications

Next Issue: 309

On sale: 16 April 2020



Next Month: If you've got to the lighthouse you've gone too far. We take a trip to the northern end of the Isle of Man to visit the Lighthouse Gorsebank and Bride Railway built by Ian Beech.



VIEW FROM THE END OF THE PLATFORM



Meeting your maker

A couple of months ago, I had the chance to take a tour around Mamod's factory in the West Midlands.

It was absolutely fascinating.

The models we see on the shelf are wrangled from stocks of materials by a team who have all been with the firm at least ten years, several for considerably longer.

Nearly all the operations are carried out in-house, using a mix of ancient and modern machinery. A BSA automatic feed lathe from 1927 sits next to a cutting edge multi-tool CNC machine. All this equipment allows the firm to design and produce new models, something we've been seeing over the last few years. They can also provide spares for old ones, so if there is a Mamod steam engine sitting on a shelf, you can restore it.

If you believe we don't manufacture anything in the UK, a visit to this corner of Smethwick proves otherwise. I'm in the process of arranging a longer trip for a feature in **Garden Rail**, so watch this space.

In the meantime, Andrew Charman, editor of our sister magazines *Narrow Gauge World* and *Engineering in Miniature*, has been to Barrett Engineering to see how they developed and now produce, an extensive range of Gauge 1 locomotive kits.

As someone with very limited engineering skills, the idea of starting with bits of metal and creating a loco from scratch is little more than a dream. I simply don't have the time to develop the skills, nor the money to buy in the equipment to use them.

However, I can wield a screwdriver and spanner. Soldering doesn't scare me either so I can see a Barratt kit would be within my capabilities. Producing a kit that someone like me could confidently tackle though, isn't an easy job. Someone has to do an awful lot of thinking and designing before any metal goes in the post.

We're talking here about only two of the many suppliers for our



A tray of Mamod rolled boilers awaiting the next stage of the process that will turn them in to pressure vessels.

hobby. I could ramble on about a trip to those helpful chaps at Roundhouse who showed me around their factory, or any of the other suppliers, but that is for another day. What I can remind you is that as Mick Blowfield explains, we should all be making tracks to Peterborough shortly to chat, look at inspirational models and flex the credit card at the National Garden Railway show.

While there, you'll be needing something to carry all your purchases around in, and fresh from the catwalk at all the latest haute couture fashion



Little locos still require large machines to build them. All those safety guards suggest that this machine at Mamod's factory is a potent piece of equipment.

shows, we have the new, super-strong, ultra-stylish **Garden Rail** bags. Grab them quick as when people spot these, they are sure to sell out fast!

I'll be on our stand with (hopefully) another garden railway built in a day. Look for the one slumped in a corner looking tired and covered in compost. With a bit of luck, a feature of the display will be models from GR regulars Dave Skertchly and Mark Thatcher. A chance to enjoy a closer look at some of the things you've seen featured on these pages. Now, where is my box of plastic track... ■

The new Garden Rail/16mm Association bag for life.



G Scale by

KM1

Models from Modellers!



Class Bh2t, 3710 / 3711 – Locomotive „11“ and „12“

Original: The locomotives 3710 and 3711 were built in the year 1913 by the „Maschinenfabrik Esslingen“. They were originally designed for the famous „Haertsfeldbahn“, that was part of the South German Railways. It connected the Royal Wuerttemberg Railways with the Royal Bavarian Railways on a 1 meter narrow gauge track, routed between Aalen and Dillingen. These steam engines are today still operated by the Railway Museum of „Haertsfeldbahn“, which is located in a picturesque area, starting from the Neresheim Abbey. The locomotives were in service until 1964. They managed the route with a maximum slope of 3% and were equipped with a Heusinger valve gear and superheaters. You can still experience a run under steam with „Locomotive 12“ today. (www.hmb-ev.de)

Model: Precision handcrafted brass model, coreless motor, DCC decoder with power pack and HiFi-sound, broadband speaker, synchronized dynamic smoke system with piston steam function, cab lighting, LED imitation of firebox, operational firebox door, switchable multi color headlights (white/red), warmwhite LED's, reliable cardan drive with ball-bearing gear, axles ball-bearing and sprung, power pickup trough axle bearing, stainless steel wheel tires, operational lids and doors, smokebox door can be opened, detailed backhead and cab interior, prototypical painting and livery, overall length approx. 27.5 cm, Minimum operation radius 60 cm, weight approx. 3 kg.

We manufacture different types from locomotive „11“ and „12“ at prototypical stages between 1913 until today. Scale of 1/22.5.

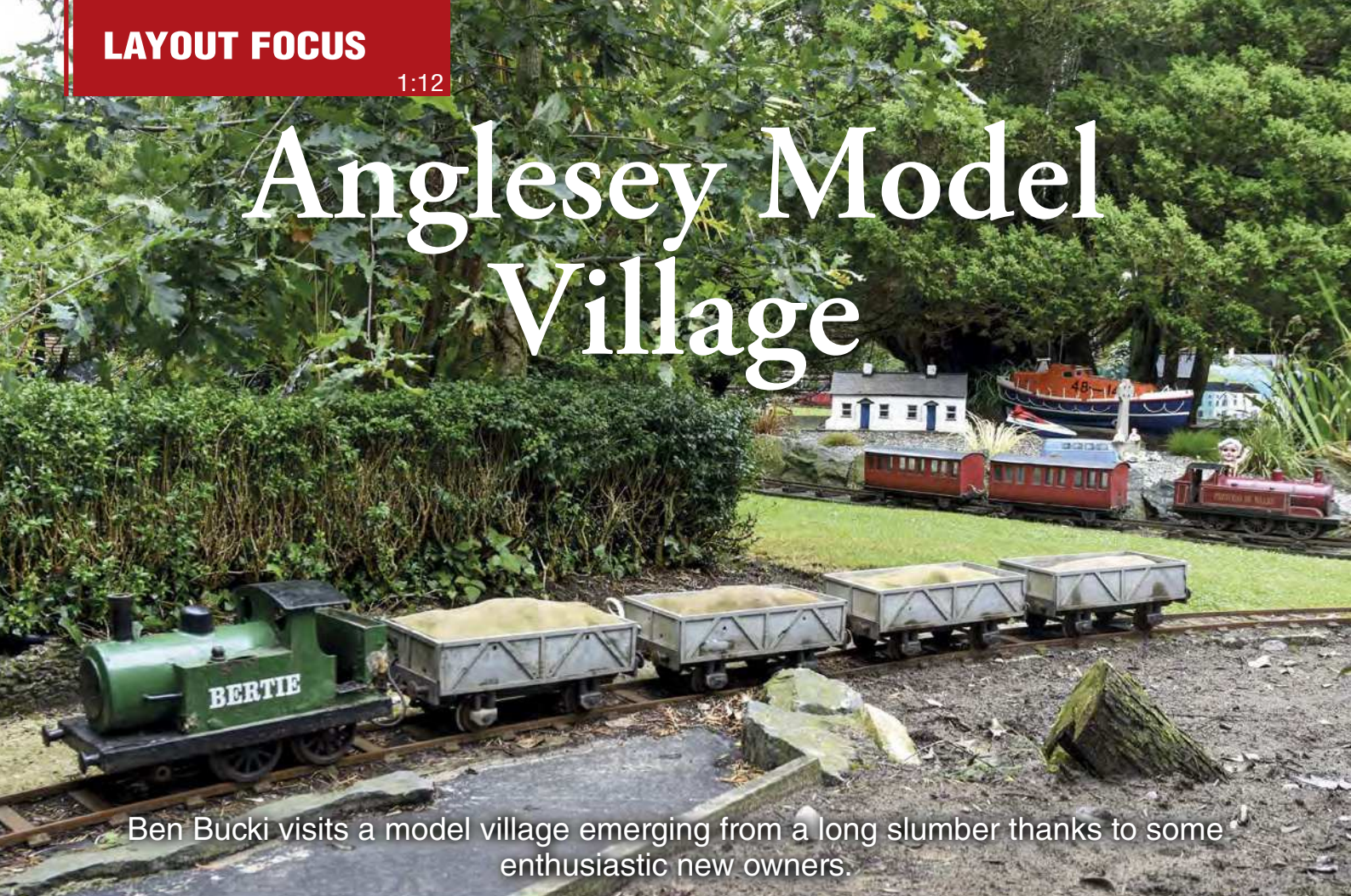
KM1 Modellbau e. K.
Ludwigstraße 14, 89415 Lauingen

☎ +49 - (0)9072 - 922 67 0
☎ +49 - (0)9072 - 922 67 22

✉ info@km-1.de
🌐 www.km-1.de

For more information and details, visit our website. Offers are valid only while stock lasts. Optical and technical modifications are subject to change. Our terms and conditions of business are applied. Copyright and pictures: KM1 Modellbau. All rights reserved.

Anglesey Model Village



Ben Bucki visits a model village emerging from a long slumber thanks to some enthusiastic new owners.

My introduction to model villages was a childhood visit to the example at Himley, in the West Midlands, during the early 90's. This attraction was built well after the 'golden age' of such miniature utopias had been and gone, and it followed the depressing pattern that many of these attractions endured; it opened to much local fanfare in the 1980's, struggled to attract visitors, closed down, and sat abandoned, until the early 2000's when it was cleared and bulldozed.

The reason I mention that is because, past the top left-hand corner of Wales so beloved by railway enthusiasts like myself, is another model village. This one, on the island of Anglesey, followed a similar pattern to Himley, albeit it apparently attracted a steadier stream of visitors whilst it was operating. But, whereas Himley was flattened apart from a few salvaged buildings, happily the Anglesey Model Village was saved in its entirety, has recently reopened, and is being progressively restored.

HISTORY

The Anglesey Model Village was opened in 1992, the creation of Jim Lympny and his wife Anne, and comprised from

the outset buildings based on local landmarks. The carefully landscaped grounds nicely showed off the structures, and whilst the village was at the smaller size of attractions compared to, say, Bekonscot or Babbacombe, it was, and remains, a very uniform place. Built to the scale of 1/12th, the structures were made to a high quality with a good eye for detail and an impressive consistency.

The Model Village did well on the island, perhaps surprisingly so, given

its relative isolation. But, when the original owners looked to retire in 2014, they tried to sell it as a going concern, unsuccessfully, and it closed and lay abandoned for some years.

As Himley had before, it took on the appearance of a miniature "Day of the Triffids", however the structures had been built to last and when the

A typical scene in the model village; the buildings are well-spaced out in the attractive grounds.





Above: The goods train, hauled by "Bertie", makes another circuit of the line, beside the slightly higher-level inner passenger circuit.



Top: Bertie brings the goods train through the flowerbeds, on the approach to the station.

Above: Waterway, complete with abandoned shopping trolley.

new owners Nick Bowler and Larry Chambers took over with a new team, they were able to get stuck into refurbishing the place.

THE RAILWAY

Like all the best model villages, Anglesey features a railway winding its way around the grounds as a means of getting movement into an otherwise pleasant but

static scene. I've always thought that the railways in model villages, and maybe the whole attractions themselves, appeal to the nostalgic part of a modeller's mind, that remembers an old childhood train set with a brightly-coloured tank loco racing around the carpet. Indeed this line at Anglesey evokes some of the atmosphere of old tinplate model locomotives trundling about.

Oddly enough the week before we visited Anglesey we'd done Bekonscot, the daddy of all model villages, thanks mainly to the article in **Garden Rail** in early 2019. Their railway is justly famous for its impressive mainline atmosphere, computer-control, and long trains of Mk.1's weaving through the place.

But, there is some inconsistency in the appearance, understandable of course given when it was built, with the railway being Gauge One, and the village being to a rather larger scale. Other model villages do the same; the use of more commercially available Gauge One trains, and of course G Scale, often leads to some strange sights where a bucolic English village has a - still often underscale - LGB Stainz and

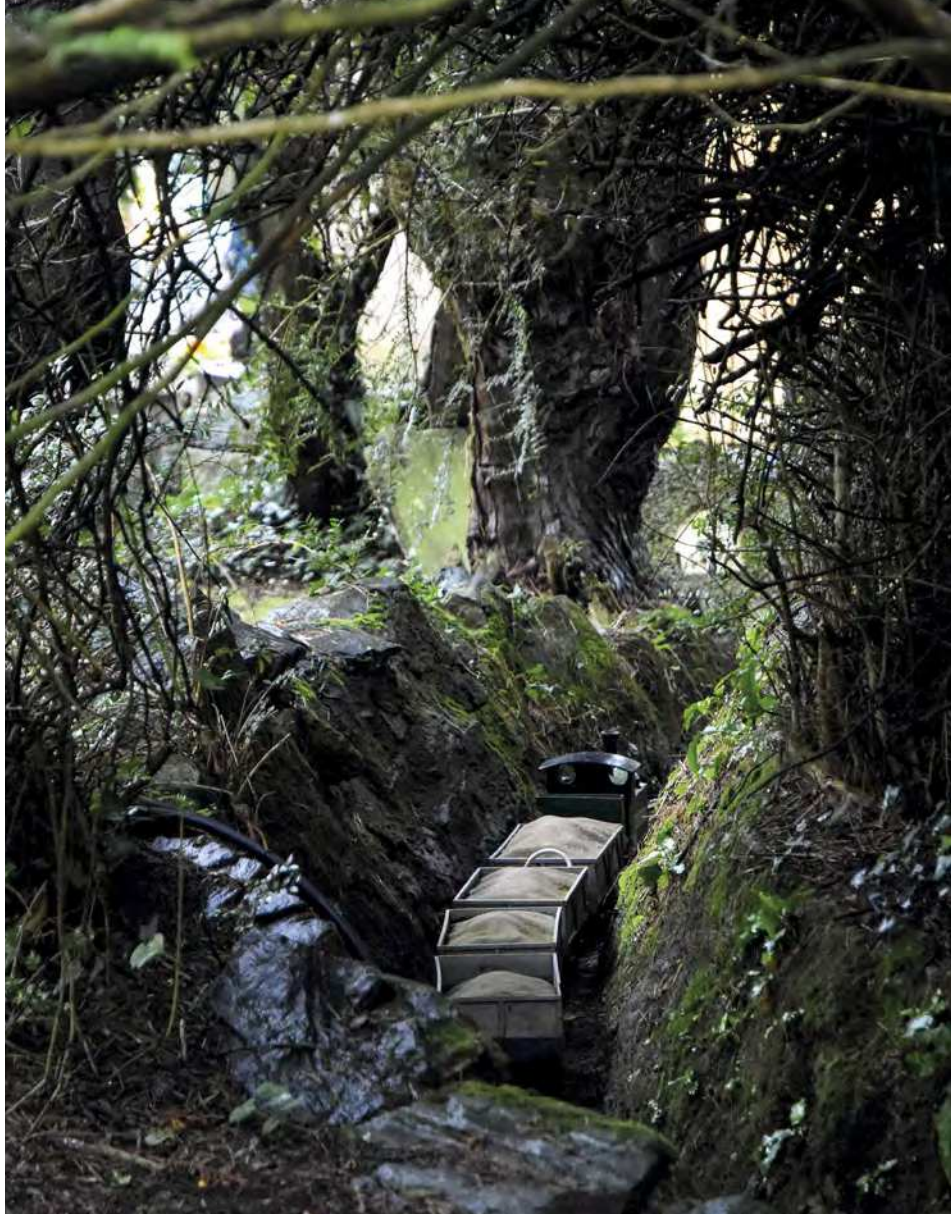


The goods train, hauled by Bertie, pauses at the station, a good representation of Llanfair P.G.

One of the local landmarks represented in the model village, the Marquess of Anglesey's Column. The real column, visible from the Britannia Bridge onto the island from the mainland, was built to commemorate the service of Henry William Paget at the battle of Waterloo (his country estate is on the island, Plas Newydd).



The goods train, hauled by "Bertie", trundles through a deep cutting as it makes another circuit of the line.



continental carriages rattling past. If there is a British-outline train anywhere, it will probably be a Bachmann Thomas the Tank Engine.

At Anglesey though, the same creativity which was applied to the buildings was applied to the railway, with the trains scratch-built in scale to

the structures. And the atmosphere too is different to other model villages, with a simple pair of trains to amble slowly around the independent circuits. It's all decidedly more bucolic; *Ivor the Engine* rather than the Island of Sodor perhaps.

The buildings are noticeably spread-out compared to other such attractions,

with carefully manicured trees and flowerbeds, and it seems somehow very right for a tank loco and short train of four-wheelers to be pottering through it all.

Perhaps inevitably given the emphasis on local buildings for the island, the only station on the railway is Llanfairpwllgwyngyllgogerychwyrndrobwllllantysiliogogoch, whose station building is a lovely recreation of the prototype—the only thing missing was the model footbridge, which I gather had been damaged in a storm and was being fixed when we visited.

There are two 1990s-built tank locomotives, which have been the mainstays of the railway. On my visit the goods train, with the green tank loco *Bertie*, was making regular circuits of the longer line. The passenger train with *Princess of Wales*, a Jinty-esque 0-6-0, was parked up on static display rather than running; at the time of writing though this elegant loco had been restored to at least partial operation for the autumn season, and was covering all of the services whilst Bertie was away being restored.

Model houses under construction.





On the inner, passenger, circuit of the railway the 0-6-0 tank loco *Princess of Wales* was posed on static display during my visit.

The locomotives are freelance designs, in pleasantly chunky metal which gives them something of a vintage Hornby tinplate atmosphere. They have heavyweight motors which are recycled items (I gather they originated as car parts) and chain-drives to the axles.

Power for the motors comes via ex-motorcycle batteries concealed in the wagons/carriage of the trains. These are recharged on each circuit by an ingenious device built into the station area, a magnet hidden behind a stack of suitcases on the platform. Thus held, a copper strip in the track recharges the train batteries using equipment inside the station building, until a timer, concealed in the second carriage, releases the train after four minutes.

According to Nick Bowler, one of the new owners, 'When the set up works well, it is a great way to keep the train operational all day whilst visitors are on site as no human intervention is required.' Illustrating a problem with operating a railway in area of high rainfall and salt-laden sea air, though, he continued 'we have however encountered difficulties with wet weather impairing the efficiency of the charging point, meaning that the battery recharge is only partial, which can result in the train gradually running out of power as the day progresses.'

At Anglesey the interesting trackwork keeps to the bespoke, home-made nature of the village, and interestingly both loops feature noticeably different sleeper/rail styles. There are two independent circuits which lap the village, a shorter inner loop and a longer

run with cuttings, a tunnel, and a nice bridge shared by the two formations over a water feature.

It is however giving the new owners of the village a bit of a headache; it's all over twenty years old, which would be a good record for a garden railway built with commercial components, but here when a rail breaks the team can hardly nip to the model shop for a bit of LGB track and maintenance is all made harder by the age of the models.

During my visit *Bertie* was running as a rather ungainly-looking 0-4-0 with the front axle missing, not that it seemed to be affecting the running. Nick said "The age of the trains is now showing; maintenance interventions are nearly on a daily basis."

He added "the plan for the trains during the first year following re-opening of the model village was simply to patch them up to get them through the year, with a view to moving to an off the shelf set-up (even if that meant changing gauge to something else), in order to make maintenance more straightforward. Initial research into

this is proving that moving to an off the shelf solution is a costly exercise, hence the latest approach to rebuild the trains, whilst funds can be found and perhaps a better cost-effective approach discovered."

All of which is sad but understandable perhaps; I know from my own time as a DT Technician that it's hard enough to keep an old piece of kit running, harder still if there isn't a manual and the person that originally designed and built it has left. These are bespoke model trains at Anglesey, built with upcycled automotive parts which are themselves probably hard to acquire three decades on. Rebuilding and updating the electronics inside will get you so far of course, but with only two locomotives, there isn't the spare cover if something breaks, and that's before you get to having to relay home-made track.

THE WIDER MODEL VILLAGE

There's fewer buildings than many other such places I've seen or researched, but actually I thought it was nicely uncluttered and pleasantly understated; I think it's the same as with any model railways, if you don't fill every last inch of space, it looks and feels like the trains are running from somewhere to somewhere else, particularly when you take into account the trees and other scenic features here at Anglesey.

When it comes to details, it also strikes a nice balance between the likes of Bekonscot (you just can't escape



Bertie makes another circuit of the longer line, and passes the level crossing near the wooden caravans. The removed front wheelset, and the consequent slightly odd wheelbase, is more apparent in this shot, but it didn't impede the progress of the locomotive.



The goods train, hauled by Bertie, heads away from the pond on the long outer circuit of the railway. On the inner, passenger, circuit is the 0-6-0 Princess of Wales.

the shadow of the place when writing about model villages) where figures and vehicles are mostly specially made, and some others which are chocked-full of large toy cars of varying scales and nationalities. Given the relatively new appearance of Anglesey with the restoration of it all, a few shiny toy cars look oddly in keeping with things.

There are also a few interactive

features like radio-controlled boats, and to be honest the only things which stood out a bit were the gnomes, which were part of a trail for younger visitors to complete. Oddly enough the most theoretically outlandish item, a large red dragon, was happily in keeping with the Welsh atmosphere.

The original owners did an impressive job with the model village, and the new owners want to build on this legacy and expand the place. The initial efforts focussed, logically enough, on the visitor facilities such as the café and toilets, whose importance can sometimes be

overlooked by heritage and tourist attractions. Recognising this, the Anglesey Model Village have installed some very nice, modern facilities, and even on the overcast, drizzly day we were there, the small but well-equipped café was doing a good trade.

After having been abandoned to the elements, the model village has needed repairs and upgrades, and Nick was



One of the miniature shops.

Bertie pauses at the station, a good representation of Llanfair P.G. with the extra-long running-in board and station name board.

Another railway item on the site, a coin-operated out-and-back miniature railway which runs along the edge of the maze.

enthusiastic about the Five Year Plan for the place. "New models have begun to appear, as well as a continuing effort to introduce more sound, movement and visitor interaction. The 21st century model village has the benefit of being able to tap in to modern technologies, e.g. microcontrollers, wireless networks and so on, enabling us to enhance the visitor experience and add a much needed level of detail to the displays."

The importance of the railway in all this is obvious, just from watching how visitors reacted as the train ambled into view, and the sound was an important factor too. A proper rumbling, clattering, rattling noise as the big metal train slowly rolls past. It would be a shame to see the original trains replaced, but I can also appreciate the problems in keeping the old models working efficiently.

I suppose that the relative isolation of the Anglesey Model Village adds to the atmosphere of the place it seems



less relentlessly commercial than some model villages. It's not completely cut-off; we popped in after a visit to the nearby Sea Zoo, and the two attractions make for a nice combined day out. It will be interesting to see the place develop, and the village itself expanded. I certainly wish it well, and plan to return the next time I'm on the island.

For their assistance in the preparation

of this article, I'd like to thank the team at the model village, particularly Nick Bowler, and also the model village historian Tim Dunn. ■

More information

For more details, visit the website of the Anglesey Model Village:
www.angleseymodelvillage.co.uk



The National Garden Railway Show



19 Layouts - with Live steam garden scale locos running all day, including : Aberwym, Albion Mill, Anglia Roads, Chalfont, Dixon Green / Saed-y-Parc, Fen End Pit, Garden Rail's Garden Railway, The Hadley, Stonybrook and Swale Rly, Hampton End, Hopfields, Kew Bridge East, Lower Chaldon, Middleforth Light Rly, 16mm Modular Layout, Portmadoc, Rhydypenderyn, Tor Halt, Upcycling Pop-up Rly, and 4000 Yards Area 5

Over 100 exhibitors expected including specialist traders from the UK, Australia, Europe and the United States, Preservation Societies and Modelling groups.

This is the big show at which manufacturers release new models, and where traders that don't usually exhibit or in some cases don't have an online presence can be found!

FREE Parking for 2000+ vehicles, Onsite Cafe, Restaurant, Cash Machine, Junior activities
Massive Prize Draw! Shuttle bus (£5.00) from Peterborough railway station

Tickets (on the door): Adults £12.50, Under 18 FREE!

Buy your advance tickets online and save £2.00 on every ticket!

www.nationalgardenrailwayshow.org.uk

10.00am - 5.00pm Saturday 4th April 2020

Peterborough Arena, East of England Showground. PE2 6XE



-THE GCR- MODEL EVENT

MODEL RAILWAY & ENGINEERING EXHIBITION

In conjunction with The Soar Valley Model Railway Club

19th to 21st June 2020

Across 3 stations along the GCR

All gauges/scales

Traders

Layouts

Engineering

Travel on the real thing between stations

Get up close to life sized exhibits

Earlybird Tickets £20 till March 31st

£22.00 for online booking after March 31st

OPEN

10AM-5PM Friday & Saturday

10AM-4PM Sunday

Book Online at www.gcrailway.co.uk



Great Central Railway Plc,
LE11 1RW
T: +44(0)1509 632323
www.gcrailway.co.uk
email: marketing@gcrailway.co.uk



ANYTHING NARROW GAUGE

www.anythingnarrowgauge.co.uk • 01409 255510 / 07711 387621 • anythingnarrowgauge@googlemail.com

Shop: 6 Bank House, Chapel Street, Holsworthy, Devon EX22 6AR (10:00 to 16:00 Tuesday to Saturday)

Roundhouse

All Locomotives in stock
FREE UK DELIVERY

Darjeeling B Class R/C: Blue ... £2180*

Little John R/C: Victorian Maroon ... £602*

Hercules R/C: Victorian Maroon ... £550*

HBKD2 0-4-0: Diesel Chassis kit ... £140*

HBKD3 0-6-0: Diesel Chassis kit ... £160*

Billy R/C: Deep Brunswick Green ... £1585*

Bulldog R/C: Black, Deep Brunswick Green ... £634*

Jennie 32mm: Maroon, Green, Black, Victorian Maroon ... £785*



IN STOCK

Peco SM32, G45 & G1 Track

NEW SM32 Buffer stop kit £5.00*

SM32 SL600 12 x flexi track £109.50*

SM32 ST605 30" radius curves ... £48.94*

SM32 ST607 38" radius curves ... £48.94*

SM32 60" rad points L,R,Y £47.50*

SM32 38" rad points L&R £46.70*

G-45 SL900 6 x flexible track £83.00*

G-45 48" radius points L&R £59.50*

Stockists of Sunset Valley
Railroad Pneumatics
and The Train Department
TTD Upgrade Valves &
WeeBee Safety Valves



NOW IN STOCK

WANTED

GARDEN RAILWAY LOCOMOTIVES AND COMPLETE COLLECTIONS

WILL PICK UP OR ARRANGE COLLECTION
BEST PRICES PAID - SPEAK TO SIMON

QUALITY WOODEN LOCOMOTIVE STORAGE BOXES

- Fitted with interchangeable locating rail
- Includes fire retardant protection foam

LOCOMOTIVE SERVICING BOX also available

FREE UK DELIVERY on all new locos

*PRICES MAY VARY

• PLEASE CHECK OUR WEBSITE FOR FULL STOCK AND THE LATEST SECONDHAND LIST •

'DAVENPORT'

Live steam 16mm : 1 ft scale saddle tank locomotive



- *Internal gas firing.
- *Outside framed 0-4-0 chassis with Roundhouse internal Walschaerts valve gear.
- *Exhaust enhancer.
- *Water top-up system and water gauge.
- *Glazed cab spectacles.
- *Radio or manual control.
- *Gauge adjustable between 32mm and 45mm.
- *Optional insulated wheels available.
- *Available with a choice of matt black or gunmetal smokebox, matt black or red oxide roof and bodywork in any standard Roundhouse colour.

Roundhouse
Open Day
17th May 2020

Roundhouse Eng Co Ltd.
Unit 6-10 Churchill Business Park,
Churchill Rd, Wheatley, Doncaster,
South Yorks, DN1 2TF
01302 328035
mail@roundhouse-eng.com
www.roundhouse-eng.com

ROUNDHOUSE



ELLIS CLARK TRAINS

Unit 1 Toller Court
Shortbank Road, Skipton
North Yorkshire BD23 2HG

WANTED

VISIT our
**O GAUGE &
LARGER** gauge
SHOWROOM

LOOKING TO SELL YOUR COLLECTION?

WE HIGHLY VALUE YOUR MODELS

- ◆ Full/part collections purchased
- ◆ No need for a list - we travel and view/collect
- ◆ Everything purchased - railways, die-cast & Railwayana
- ◆ All gauges and ages, including continental & US
- ◆ Upfront payment by cash, bank transfer or cheque
- ◆ Vast experience in purchasing large collections
- ◆ Friendly and professional service
- ◆ Specialised interest in 7mm O gauge

GET IN TOUCH

ellisclarktrains.com

01756 701451

ellis@ellisclarktrains.com

CONTACT ELLIS OR ALBERT



KENT GARDEN RAILWAYS

Check out the extensive listings of "in stock" items and special offers in our online shop



Available from stock



1:19 Talgarth 0-4-0T
Black, green or maroon £1050.00



1:19 Sabrina 0-4-0ST Black, green or maroon £1050.00
Featuring simplified Walschaerts valve gear and slide valve cylinders, gauge adjustable. An ideal starter loco



1:19 'DOLGOCH' Tallylyn 0-4-0T TR green, 'Atlas Foundry' green or Crimson Lake. 32mm or 45mm (not re-gaugeable) LAST FEW £1550.00
Indian Red version now available at £1595.00.



Kerr Stuart 'Wren' 0-4-0T 1:13.7 Scale (7/8ths) in black, blue, green, grey and red £1650.00



E19-1Y Baguley Drewery 0-6-0 Two rail electric - red, black, blue, or yellow Diesel £350.00
Powered chassis £250.00



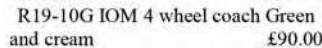
R19-26 Isle of Man Pairs style Half Brake £175.00



R19-17 Isle of Man Pairs Composite - still available £150.00



R19-10 IOM 4 wheel coach Maroon and cream £90.00



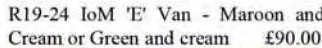
R19-10G IOM 4 wheel coach Green and cream £90.00



Isle of Man G Van, with or without vents (portholes). Light grey with various numbers or data only £80.00



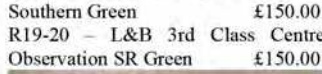
W&L Guards Van - W&L 1 or 2, data light grey or data dark grey £75.00



R19-24 IoM 'E' Van - Maroon and Cream or Green and cream £90.00



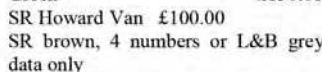
R19-19 - L&B 3rd Class coach in Southern Green £150.00



R19-20 - L&B 3rd Class Centre Observation SR Green £150.00



R19-21 - L&B Composite in Southern Green £150.00



SR Howard Van £100.00



SR brown, 4 numbers or L&B grey data only

Pre order items



1:32 SCALE ADAMS RADIAL TANK 4-4-2T

The model is 1:32 scale for 45mm gauge track, gas-fired with a single flue boiler. The East Kent Railway version is only available from Kent

Garden Railways. The anticipated UK RRP will be £1950.00 or £1995.00 for the RTR version (depending on livery), £1795.00 or £1850.00 in kit form.



1:19 'TALYLLYN' TR 0-4-2ST
To be available in TR Green, Indian Red or Black and either 32mm OR 45mm gauge. £1650 with an anticipated delivery in early 2020.



1:19 Large Quarry Hunslet
To be available in Red, Black, Penrhyn lined black and blue. Anticipated delivery Q3 2020 and price £1595.00



1:19 'LAWLEY' Beira & SAR Falcon NG6 4-4-0
The museum quality model will be internally gas fired and is gauge adjustable for either 32mm ('0' gauge) or 45mm ('1' gauge) - all the parts for this are supplied with the model. Liveries planned are Beira Railway Green, SAR green or SAR black. Estimated price £2950.00 with delivery in 2020.



1:20.3 'KATHLEEN' & 'LADY EDITH' Cavan & Leitrim 4-4-0T
The model is internally gas fired and has piston valve cylinders. The estimated price is £1950.00 with delivery in 2020



LGB



22061 RhB Class Ge 6/6 II Electric Locomotive mfx/DCC Sound £1318.00



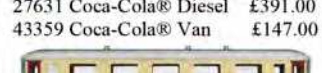
24141 Field Railroad Locomotive KJF £293.00



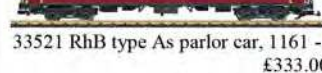
27330 RhB G 4/5 Steam Locomotive £1822.00



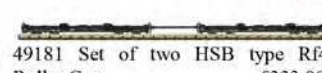
27631 Coca-Cola® Diesel £391.00



43359 Coca-Cola® Van £147.00



33521 RhB type As parlor car, 1161 - £333.00



49181 Set of two HSB type R14 Roller Cars £333.00

PIKO



37230 DR BR95 Steam Loco £725.00



37543 HSB Harzkamel £375.00



37575 BR118 Diesel £395.00



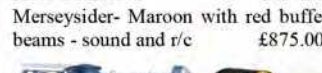
37582 DR BR131 Diesel £411.00



In stock items



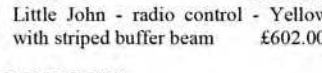
Bulldog - 16mm battery loco with radio control £634.00



Merseysider - Maroon with red buffer beams - sound and r/c £875.00



Darjeeling NDM-6 - Darj blue with sound £1355.00



Little John - radio control - Yellow with striped buffer beam £602.00

Kent Garden Railways, 66 High Street, St Mary Cray, Orpington, Kent BR5 3NH

Telephone 01689 891668

Shop open Tuesday to Saturday 09:00 to 17:00

www.kgrmodels.com

Building an automatic semaphore signal



Dave Skertchly finds that his romantic notion of the life of a lonely signalman is shattered as he becomes embroiled in the complexities of railway signalling.

We all have in our mind the image of the lonely signalman brewing his tea and puffing at his ciggy, patiently waiting for the next movement. I too held to this romantic notion until curiosity got the better of me. Struggling through *Signalling in the Age of Steam* by Michael A. Vanns, I must admit to being no wiser, except for developing a deep admiration for those with the talent, teamwork and diligence to mix express and goods trains to a tight schedule on hundreds of miles of complex main lines.

As for the narrow gauge, it all seems a bit hit and miss. Literally. An accident

at Glan-y-Pwll Junction in 1897 highlighted the lack of operational discipline when after a head on collision, which it seems may have bent the buffer beam of a locomotive, the signalman was found to have the line tickets in his pocket and to have never even seen the line staff.

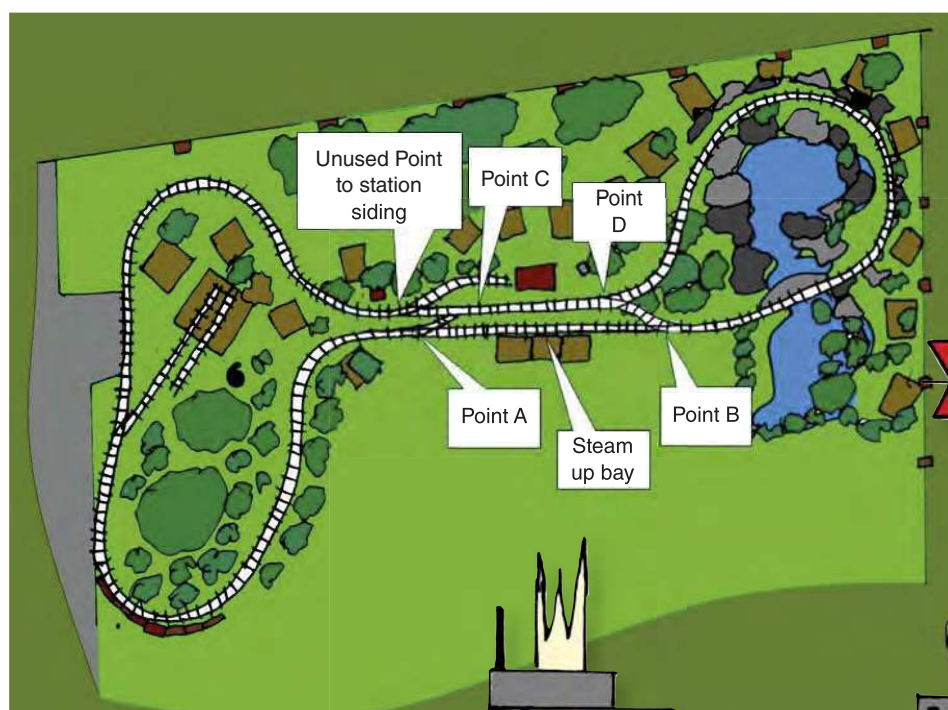
The Vale of Weedol Tramway comprises a simple dog bone and passing loop which can be converted into a circuit. With reference to the track plan, points A and B are manually operated and allow access to the steaming bay.

Points C and D are operated by the locomotive wheels and hence flip from

left to right as the trains pass over causing the trains to run in alternate directions. This is not the same as automatic tram points which are biased to one direction by a spring or balance weight.

With my battery electric trains running effectively six route options, it made for pleasant running. However, as I sat on my rustic park bench outside the Sheep Shearer's Arms I could not see which route the next train would take.

To develop a point indicator signal I first needed a set of points to work with in my workshop but the asking price of over £50.00 is a substantial sum to be taken from my meagre pension.



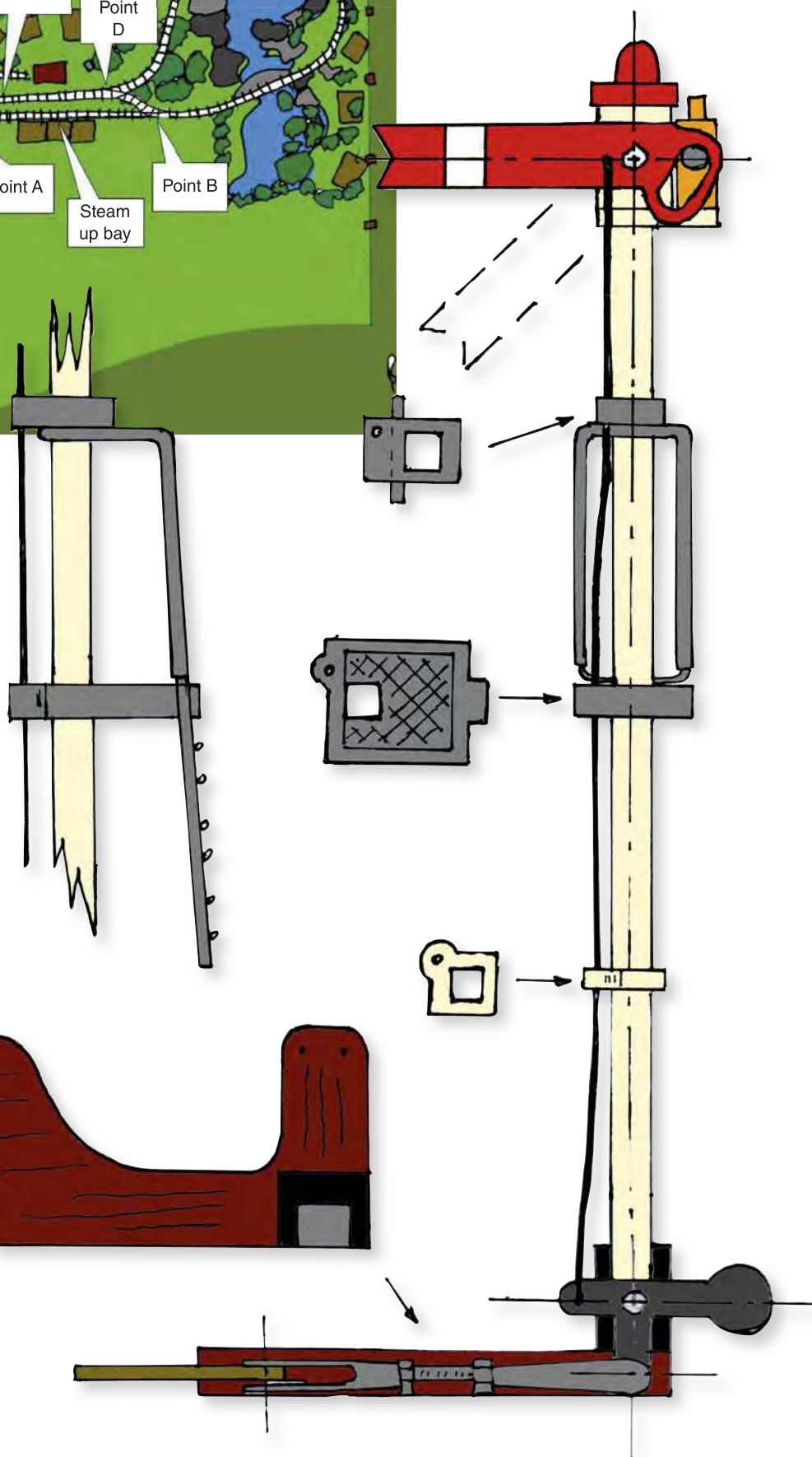
The layout of Dave's line has two points labelled C and D which change as the locomotive drives over the trailing point.

It was John Rogers who came to the rescue with his radical concept of a dummy point. There are some locations, perhaps a little used siding or a whimsical diversion, where the points are rarely used. In these locations a non functioning dummy point can be made up easily and cheaply. So it was that one functioning point was removed to Lost'n Bodge Works and work on the signals could start.

The traditional semaphore signal is operated remotely by cables and over centre counter balances ensure that it remains in the position set without strain on the cables. My automatic points however, rely on the weight and the wedge effect of the locomotive wheels against the over centre spring built into the Peco point.

For many years I had removed the spring from the point and only during this project did I find out how poorly the point had operated. Peco have now kindly provided replacement springs.

I used weights fitted to my universal track measuring wagon to measure the locomotive nose weight which would be required to operate the trailing point rather than jump over it. It seems that a weight of about 300g is required to operate the point although this varies from 330g for the curved approach to 275g for the straight through. Finally I checked the nose weight of my locomotives and found that the smaller





Dave used weights to measure the operating load required to switch a set of points and presented them in a table. Using a kitchen scale to measure the nose weight of a locomotive.

Locomotive nose weight (gms)

Locomotive		Weight on front wheels
Excelsior	0-4-2 WT	306
Penelope	0-4-0	295
Duncan	0-4-2	311
Freddie	0-4-0	591
Toad	0-4-0	207
Abigail	0-6-0	535
Blake	0-4-0	926

Right: To free up a point for development Dave was inspired by John Rogers dummy point. (Photo: John Rogers)



Measured Activation Load (gms)

Straight	273
Curve	330

Above: The first effort at the interface between the Peco Point and the signal showed that clearance to the pushrod were difficult to achieve and resulted in a rather lop sided design. This picture shows the final configuration of the pushrod and bell crank.

locomotives required additional weight of between 50 and 100g.

To operate the pushrods I decided to try model aircraft quick-links which

are used to connect the control surfaces to the radio control equipment. They have an M2 thread and fit to a long bolt from which the head has been

removed. With two lock nuts I had a kind of turnbuckle. The quick-link which interfaces with the Peco point operating rod has its pin cut off and the hole opened up to 2mm. I bought three types from Sussex Model Centre and eventually settled on the metal type.

I started the signal by building a secure base and solid interface to the Peco point. Providing clearance for the pushrod was difficult and resulted in a rather lop sided design but gradually by a process of boding I arrived at the final design. This point is for SM32 but the same principal could be applied to any size of track, indeed a common component could be moulded with trim lines marked on the moulding for different point types.

I checked the heights and clearances between the largest locomotives and carriages before designing the



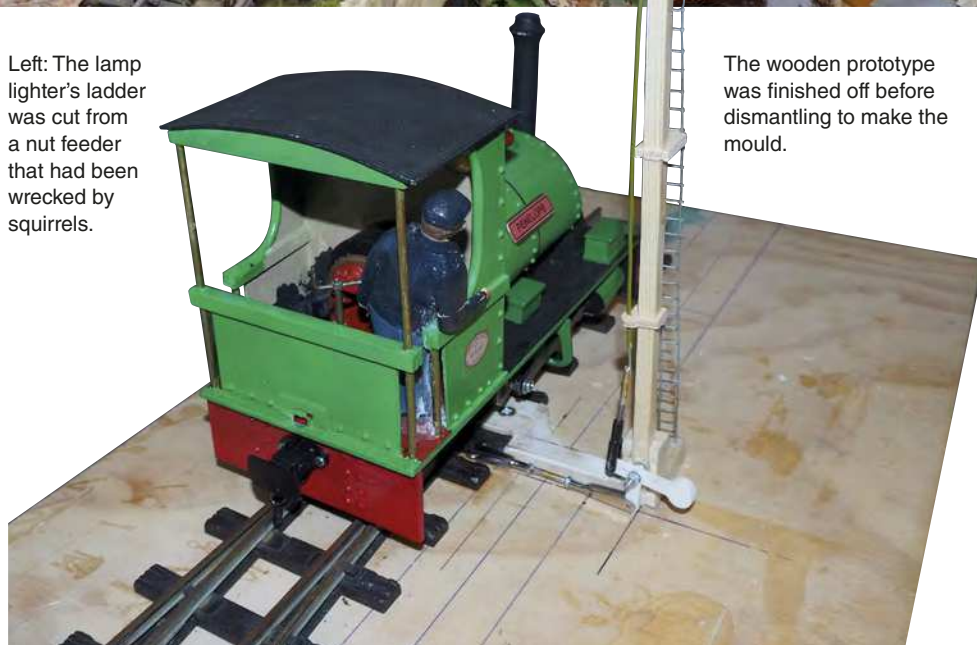
Checking the heights and clearances between the largest locomotives and carriages was essential before finalising the base and the signal pole design.



The prototype wooden lash up was installed at Llatidos junction for tests in a real world environment including correct running clearances.



Left: The lamp lighter's ladder was cut from a nut feeder that had been wrecked by squirrels.



The wooden prototype was finished off before dismantling to make the mould.

by squirrels. The lamp and finial were cut from ply and seem most effective.

It was obvious that the detailed signal parts would soon rot and distort. I would also need two signals and so rather than cut the parts from Plastikard, I chose to make a mould and cast them from Polyurethane resin. The wooden prototype was finished off before dismantling to make the mould. Prototype parts were fitted into a moulding box and silicone rubber tool taken using my favourite soft grade.

The set of moulded plastic parts from the mould tool are just fine.

Everything needs to be painted because the polyurethane plastic is prone to ultraviolet degradation, so they were sprayed with grey rattle can primer.

The base was painted to match the Peco track and the masthead fitting and lamp painted up in an appropriate white with details. The signal semaphore was painted in what seems to be an appropriate colour but who knows if the colour coding is correct?

The prototype signal version 1 was installed in the garden and left out in the winter rain with no ill effects but the hard steel garden wire was difficult to

form into joggles and eventually tended to buckle. Version 2 used two supports for the pushrod and I found I could use softer copper wire without removing the black plastic covering. Joggles could be easily formed at both ends and the adjustment done with the turnbuckle. The masthead details did not change between versions. The space for the joggle is however very tight.

I had noticed that semaphore signals often have a platform presumably for the lamp lighter or maintenance technician. A platform and extra guides were made from a crude moulding



The wooden and plastic card prototype parts ready to be made into a pattern for moulding.

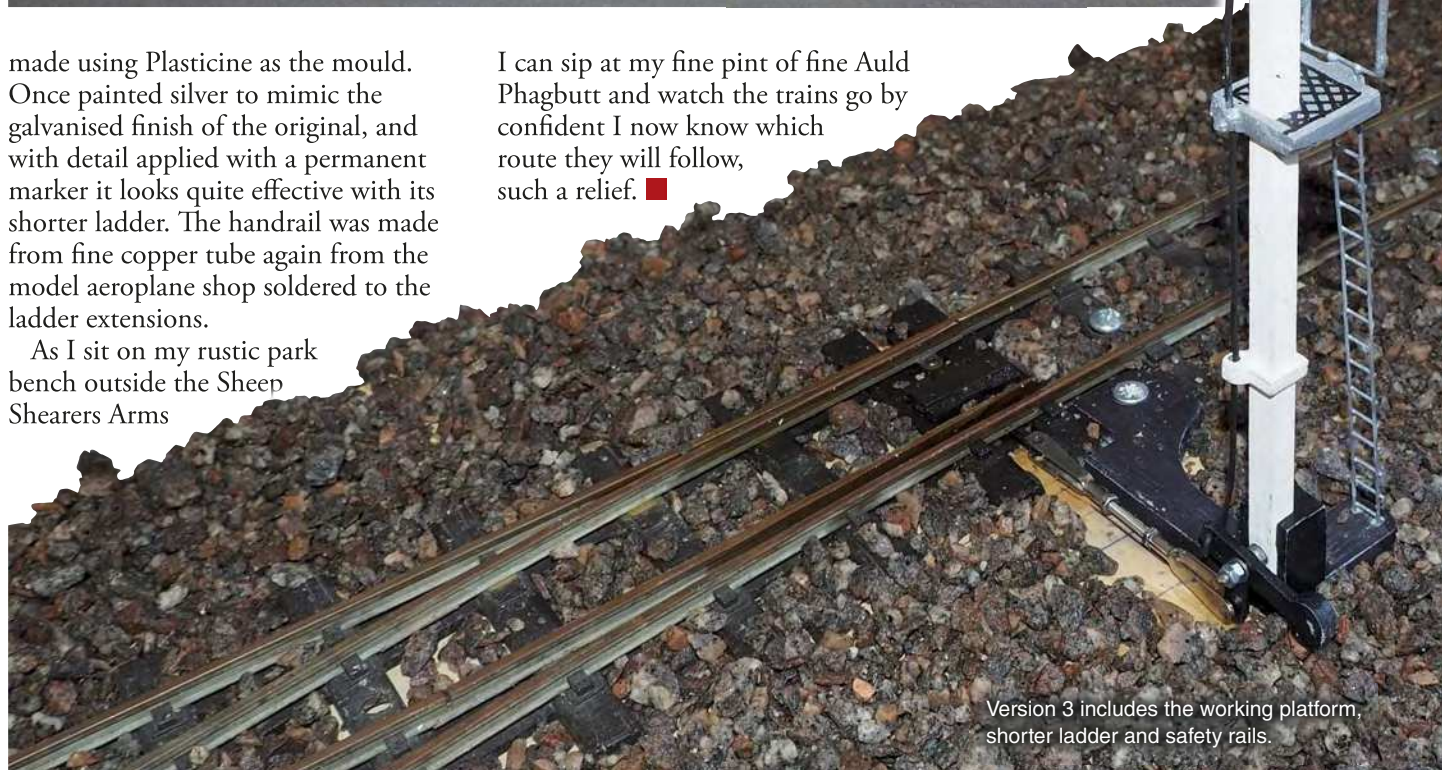


A set of moulded plastic parts from the mould tool including the extras for the lamplighter's platform painted and ready to fit.

made using Plasticine as the mould. Once painted silver to mimic the galvanised finish of the original, and with detail applied with a permanent marker it looks quite effective with its shorter ladder. The handrail was made from fine copper tube again from the model aeroplane shop soldered to the ladder extensions.

As I sit on my rustic park bench outside the Sheep Shearers Arms

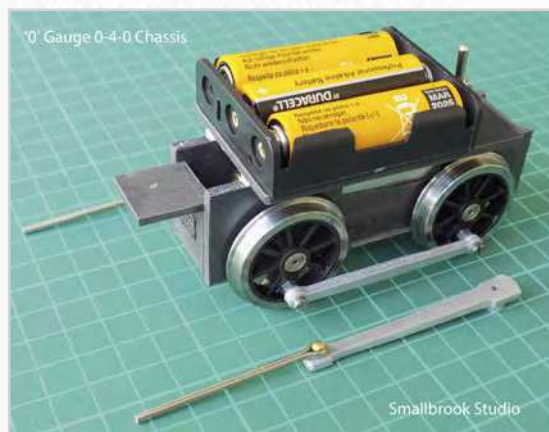
I can sip at my fine pint of fine Auld Phagbutt and watch the trains go by confident I now know which route they will follow, such a relief. ■



Version 3 includes the working platform, shorter ladder and safety rails.

Smallbrook Studio

Makers of Fine Railway Models



Introducing our NEW simple to build '0' Gauge Self Contained Battery 0-4-0 Chassis Kit now with a much improved chassis and Slater's 16mm scale wheels - £98.00
Fine scale 0 gauge and Gauge 1 versions with 41mm back to back wheels are also available - £98.00

The kit makes a simple battery powered garden railway locomotive chassis and is complete with everything required to make the model including new improved frames, side rods, Slater's wheels, high torque motor and brass gears, requires batteries, glue and paint. The kit comes with good, clear instructions for construction.

Post & Packing on all orders: UK £4.00, Europe £8.00, Rest of World £10.00. Send large C4 SAE with large stamp for our illustrated 16mm scale price list.

Payment by PayPal on our web site, by phone for all major credit/debit cards or cheque by post.

SMALLBROOK STUDIO, Smallbrook House, Gunville West, Newport, Isle of Wight. PO30 5LW

Tel: 01983 520584 • Email: smallbrookstudio@gmail.com
www.smallbrookstudio.co.uk



THE GAUGE ONE MODEL RAILWAY ASSOCIATION

Just imagine the thrill, spectacle and sound of a real live-steam hauled express train like this one running through your garden, or perhaps a more sedate goods train hauled by a modest tank engine. Whatever your tastes, G1MRA—the oldest established large-scale and garden railway association can help you realise that dream. Benefits include our renowned quarterly Newsletter & Journal, a wide range of construction book publications, friendly local groups and trade supplier lists. G1MRA layouts are regularly featured at major exhibitions nationwide - check our website Events list for details.

For joining details please visit our website: g1mra.com, or write to:

The Membership Officer
PO Box 363, Trimdon Station, TS29 6YU
07547 804142
Email: g1mra.membershipofficer@gmail.com



7/8ths 18" Baldrig



16mm Arthur

Manufacturers of 16mm & 7/8ths Scale Etched Brass Kits

We currently supply five 16mm scale and six 7/8ths scale locomotive body kits to suit Accucraft & Roundhouse chassis. There are also six rolling stock kits in 7/8ths scale to compliment the locomotives.

Body kits feature half etched lines with major parts supplied pre-folded and roofs rolled for ease of construction.

All kits are supplied with the required fasteners for kit construction, a mix of lost wax brass and white metal castings and laser cut components where required.



7/8ths Slate Wagon



7/8ths Skip

Available From

Mikes Models
3-5 Brockwell Rd, Birmingham, B44 9PF

Phone: 0121 360 4521

Email: info@mikes-models.co.uk

www.mikes-models.co.uk



PENDLE VALLEY WORKSHOP

GARDEN RAILWAY RESIN MODEL KIT SPECIALISTS

WWW.PENDLEVALLEYWORKSHOP.CO.UK

@PENDLEVALLEYWORKSHOP

OPENING TIMES:

10:00-16:30 TUESDAY - SATURDAY
01524 730101

FIND US INSIDE CARNFORTH MODELS:
CARNFORTH STATION, WARTON RD, CARNFORTH
LA5 9TR



HOME OF: THE BUSY BODIES!

FIGURES CAN BE ORDERED PAINTED OR UNPAINTED
ADD CHARACTER TO YOUR GARDEN
RAILWAY

Pretty in pink – don't you think?

Mark Thatcher builds the Thatched Cottage from Modeltown.

In 2016, the quaint village of Finchingfield was voted the best place to live in the UK. I can see why, with its charming chocolate box houses set around a beautiful green.

Back in 1971, as a ten-year-old lad, I was less than impressed being dragged up there on a four-hour round bus trip from Hornchurch. A few months earlier I had taken my first long-haul flight on the newly launched Boeing 747 to New York, then onto Seattle, and this may have skewed my viewpoint somewhat.

New York, Seattle, Finchingfield? Hmmm

In my latter years I have a rekindled interest in these quaint old buildings as I often research them for my ramblings in this magazine. I certainly have come to be very impressed with the scale and breadth of

Granny must have shares in Miracle-Gro judging by the size of her snowdrops!

English architectural design over the centuries, and now Finchingfield is a far more attractive proposition for me than any location over the other side of the big pond.

YOUR VERY OWN GRANNY

A first look at this thatched cottage reminded me of the events above. Often I draw inspiration from these past experiences and they help me to add my own twist when building and painting these kits. This cottage is of course designed to be twee and cute, and in this respect the rendered finish of the walls is a step away from the more usual brick, stone or wood rendering found on other kits in Modeltown's range.

What I also noticed with this kit was I did not just get the cottage itself, but there were several other embellishments

Coach & Wagon Work's clamps and clamping squares are pressed into action. They really do take the guesswork out of squaring up the corners of the building.

How to: paint a thatched roof without paint



1.

It is worth assembling the roof sections firstly by tack gluing with Superglue whilst they are Blu-Tacked to the main building. I use an accelerator to speed up the process. Then remove the roof, and strengthen the inside join with resin filler. Also fill the gap along the apex.



2.

Using a small amount of wood stain dab randomly then with a soft brush work into the roof working from top to bottom. Let the stain naturally run down the roof as you brush.

3.

Apply a second coat of stain to the thatch nearest the apex of the roof to provide a contrast in colour. When you are happy with the result, let the stain dry then spray a quick coat of matt varnish to protect it. Job done!



including a separate thatched porch (located over the front door), a chimney, a cute window box to be located under the dormer window on the front elevation, a shrubbery which can be placed where you fancy, a wooden bench for your Granny to sit on, and even your very own Granny is included too. These details not only add a certain verisimilitude to the overall scene, but are easy to paint and detail as they are all separate parts.

The cottage itself can only be built one way, with the chimney (moulded into the side wall) sitting to the left of the front elevation. This, in turn, allows the thatched dormer roof to sit over the dormer window. My rather *blaze* attitude to modelling allowed even me to get this wrong. Never over-estimate your abilities, and I certainly ran out of talent here, if you look at the pictures you will see this initially! It was soon corrected though.

The front and rear elevations overlap the sides of the buildings. This is common practice in the Modeltown range. As usual everything fits perfectly too. However, the rendered finish did mean the joins on the corners were more visible than on a stone or brick wall. With these finishes I would use a Dremel to etch extra mortar lines into the each corner of the building, to take the eye off the join, but with this rendered finish I had to come up with a plan B.

Rather than just use Superglue to gloop the structure together, I reverted back to Isopon P38 sanding car body repair filler which is a good gap-filling adhesive.

When this was dry, I added a thin fillet of Isopon between the seam edges and used a scouring pad to add a textured stipple before the resin had fully cured, which made these joins far less visible. It is worth then blowing

over the joins with a grey primer, which will give you an indication of how well this has worked, and repeat the gap-filling process above if you need to.

THE ANGLE OF THE DANGLE

I was sent some very useful right angled clamping squares and clamps to try from Coach & Wagon Works. These are invaluable little tools as they greatly aid aligning the building corners to ensure they are set at 90 degrees. (*Editor: I've a set of these kicking around my modelling board too and they are a very useful tool in all scales*)

If you are using Isopon or a two-pack resin based product, you really need to get the angle of the dangle on the corners of the building right first time before the resin hardens, as even with Modeltown's generously thick resin walls, you will crack the component before you break the resin bond.

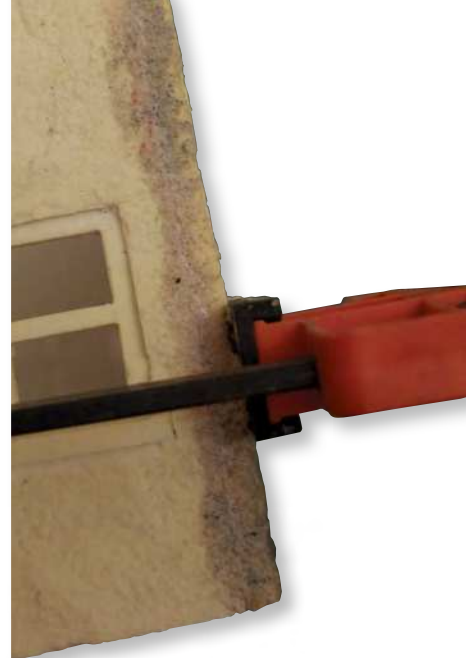
If a mistake is made, your only answer



The first step to disappear the corner join is to add some Isopon P38 filler to the seam.



Then scrape off the excess with a Stanley knife or similar before the resin goes off. Then just dab it firmly with an old scouring pad to create a stippled effect.



Look closely and you can see remnants of the green fibres of the scouring pad stuck to the render. That is fine as it adds texture and will be easily hidden by the top coat of paint.

is to saw them apart with a model saw. And yes, I have had to do this on a few occasions too. Hopefully, now that is a thing of the past with these great clamping squares.

THE THATCHER'S THATCH

I guess I must have come from a family of Thatchers originally, but have never held a clump of this stuff in my life.

Furthermore in all my kit-building years I have never attempted to replicate thatch on a model.

Getting this wrong

would be a deal-breaker on this kit, as the thatched roof will be the first thing the eye will be drawn to so I did a lot of research and soon discovered that whilst newly-laid thatch has a yellow hue to it, this soon dissipates, and the thatch takes on quite a greyish or brownish tone.

Also, the overall colour of the roof can be affected by the material used: usually straw, water reed, sedge, rushes, heather, or palm branches. So I initially thought that grey, with lighter yellow highlights, finishing this off with a darker grey wash might work.

I noted the colour of the resin itself was quite close to the lighter colour of thatch, so wandered if I could apply a wash of something directly onto the bare resin. I have never tried that in my life but I gingerly applied Colron Georgian Medium Oak wood stain with a small brush dabbing this on randomly and then worked it in down the pile of the thatch. It worked well and was a five minute fix.

Then I just gave the roof a squirt of matt varnish from a rattle can so seal in the wood stain. You know how I like to keep things simple. So what I thought would be the biggest challenge of this kit turned out to be the easiest.

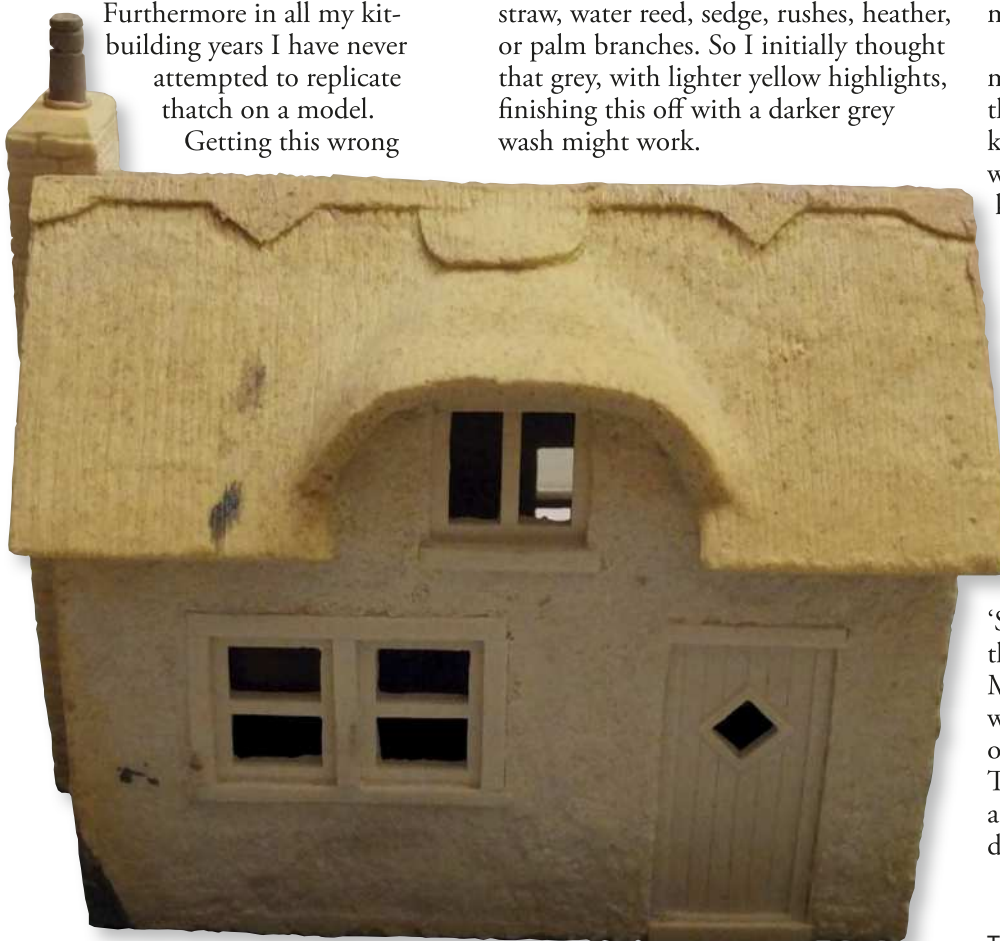
CHOCOLATE BOX COLOURS

Clearly this model is as far from an industrial model as a fish is from a bicycle, and I wanted to reflect that in the colour scheme, particularly as I would be painting the flowers in the tub and window box, and of course Granny herself.

For the main walls I chose Valspar's 'Darling': a light pink.

This was accented with Valspar's 'Something Borrowed': a light blue that I had in stock from making Modeltown's Welsh chapel kit. This was used for the windows, but the outer frames were painted in white. The chimney was sponge painted in a mixture of greys, starting with the darkest shade first.

I did need to clean up around the



The shell of the building is complete and just waiting for a visit to the paint shop.



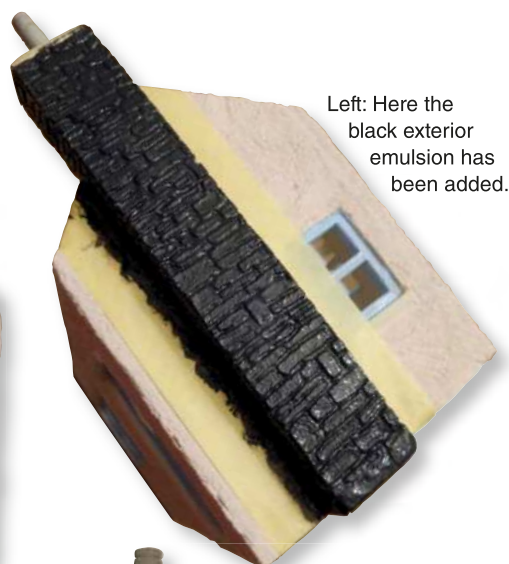
It is worth masking up the chimney area so when sponge-painting the black and grey on the chimney, you don't splodge it over the render on the walls.

inside of the window frames a little. This was quickly achieved with a scalpel just to remove any sharp edges from the inside of the frames. The whole kit went together very well, although as I said earlier, you will need to spend time getting the corners *faux* render to match, but it is worth spending the effort on this step as you will regret it after painting the model if not doing so.

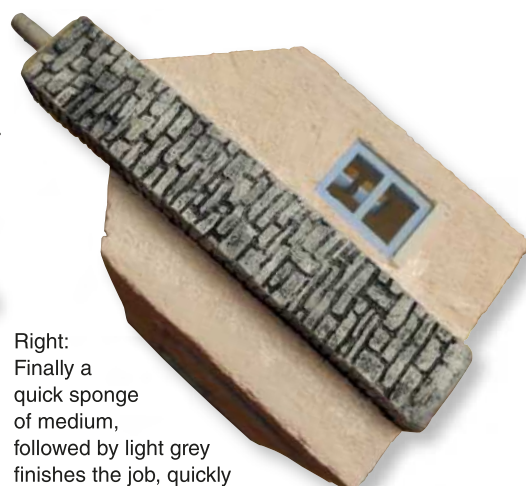
The roof was a good fit. Tip: BluTack the roof sections in situ, then run a bead of Superglue to tack-glue the roof sections together (but don't glue the roof to the walls). Then once set, you should be able to remove the roof and reinforce inside the apex with resin. That way you can paint the roof separately and know that when coming to refitting it, the pitch of the roof will be correct.

It probably took as long for me to paint Granny and the other bits of detail than to make the actual cottage, but then it is these details that really bring this model to life,

The final result. It looks like Granny is very content sat there crocheting her gingham tablecloth! The only addition I have made is to add the brass door knob. Everything else is provided in this very comprehensive kit.

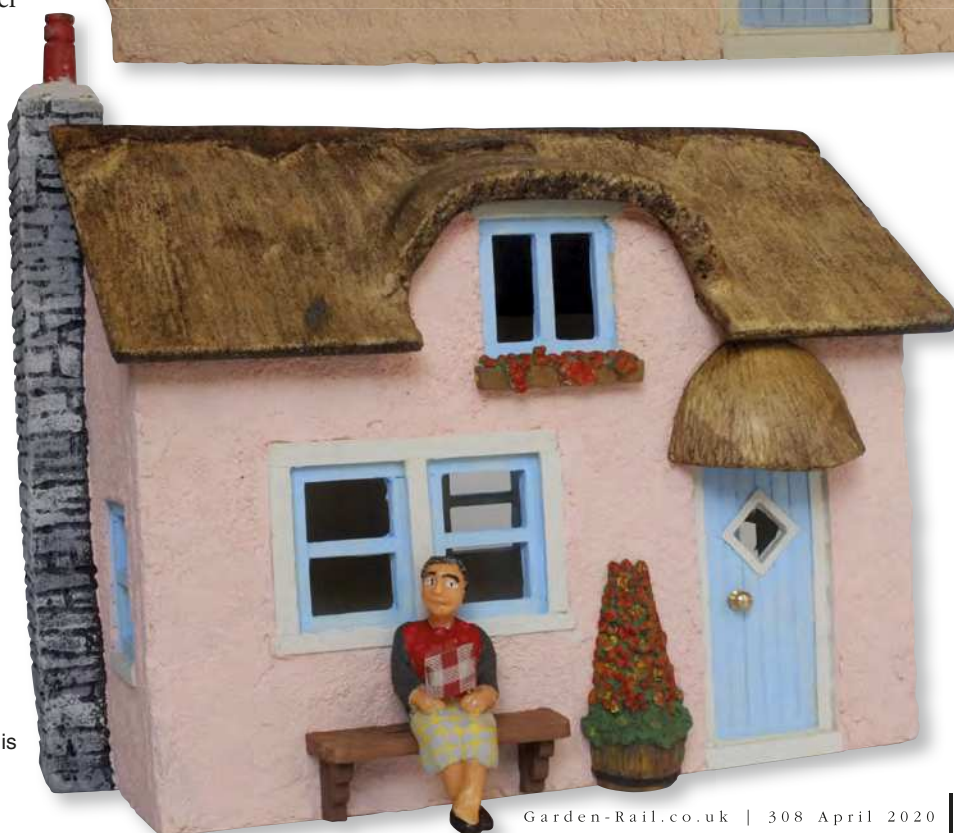
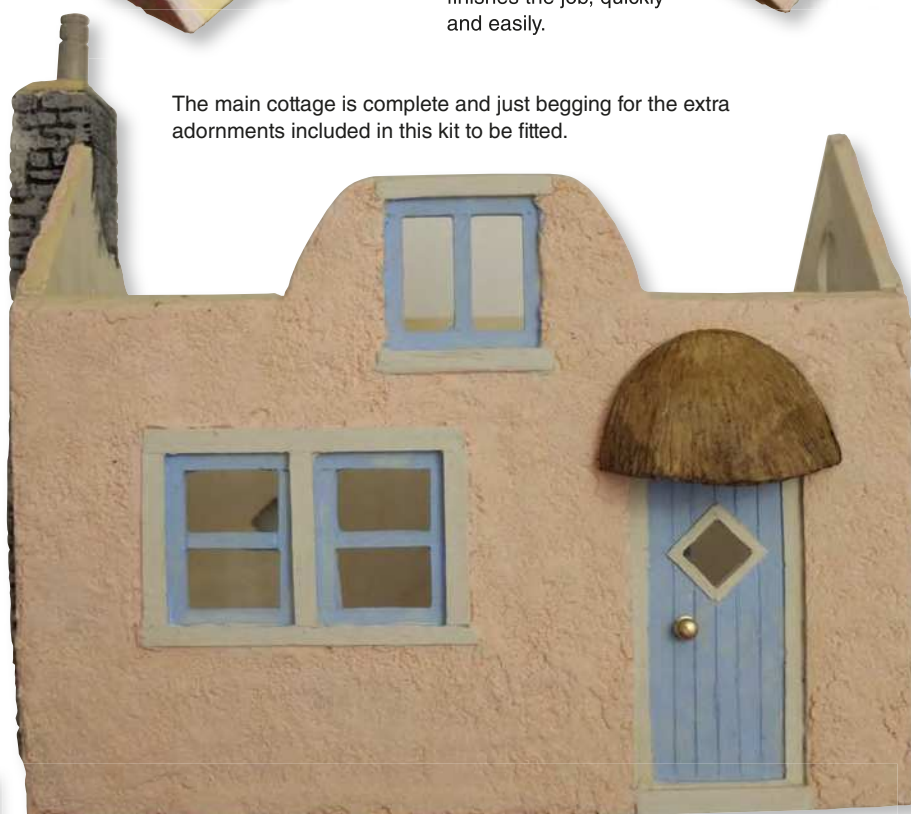


Left: Here the black exterior emulsion has been added.



Right: Finally a quick sponge of medium, followed by light grey finishes the job, quickly and easily.

The main cottage is complete and just begging for the extra adornments included in this kit to be fitted.





and personally this is the bit of the building process I like best.

I suspect this kit is one of Modeltown's earlier kits but still has the tried and trusted Modeltown feel to it and stands up very well to their later offerings.

I am sure it could also be re-purposed as a general store or post office even, if that takes your fancy.

But, it looks like Granny will be tucked up warm and cosy tonight, thanks to the thatched roof, made by a Thatcher who can't thatch. And that is what I love about this engrossing hobby like ours. However long you have been modelling, there is always a new trick or technique just waiting to be discovered. ■

Try as I might, whilst painting buildings are fine by me, it is a known and much joked about fact, but for some reason I struggle with these little people. Perhaps I should enrol in a figure painting class with The Games Workshop.

Garden Rail Resource

Modeltown

6 Station Road, Halton Holegate, Spilsby, PE23 5PB
www.modeltown.co.uk
 Thatched cottage, with embellishments and Granny – £49.00

Coach & Wagon Works

2 Dobles Terrace, Dobles Lane, Holsworthy, Devon, EX22 6HW
www.coachandwagonworks.uk
 Clamping squares, three sizes from £2.50 to £4.00 for a packet of four

Please mention Garden Rail when contacting suppliers.

The rear elevation, by the very nature of the property holds less visual interest, but still makes for a pleasant elevation nonetheless.



Starter Sets



PK37154 Circus Roncalli Battery RC Starter Set

Locomotives



PK37242 DB BR050 Steam Locomotive IV
PK37243 DCC-Sound Version



PK37429 Flixtrain BR181 Taurus Electric Locomotive VI



PK37436 DB E94 Crocodile Electric Locomotive III



PK37441 DB BR103 Electric Locomotive IV



PK37510 DB BR218 Diesel Locomotive IV



PK37568 DR BR110 Diesel Locomotive IV



PK37591 DR B106 Diesel Locomotive IV
PR37591 DCC-Sound Version



PK38208 AT&SF Mini Mogul Steam Locomotive 723



PK99720 2020 G New Items Leaflet FREE
PK99700 2020 G Scale Catalogue £3.95

Coaches



PK37662 DB BPMZ 2nd Express Coach IV



PK37663 DB BPMZ 1st Express Coach IV



PK37664 Flixtrain Passenger Coach VI



PK37680 DR Reko Bage 3 Axle Coach IV



PK37681 DR Reko Bagtre 3 Axle Coach IV



PK37682 DR Reko Baage Coach IV



PK37682 DR Reko 3 Axle Baggage Coach



PK38650 NYC Wooden Coach 286



PK38651 NYC Wooden Coach 287



PK38652 NYC Wooden Combine 215

Wagons



PK37745 DR EAOS Gondola IV



PK37747 DB Bogie Flat Wagon
w/20' Container IV



PK37752 DR Bogie Flat Wagon w/2 x20'
Deutrans Container Load IV



PK37764 DR Res-X Bogie Stake Wagon IV



PK37795 DR Cement Silo Wagon IV



PK37926 DR 2nd Class Coach III



PK37957 DB Open Wagon III



PK37958 DR Flat Wagon IV



PK37959 DR Club Cola Box Van IV



PK38767 Texaco Bogie Tank Wagon 1971



PK38768 Christmas Flat Wagon with
Pick-Up Load



PK38769 UP Bogie Flat Wagon w/Chevy
Nomad Load



PK38770 PRR Bogie Stake Wagon Set (2)



PK38771 D&RGW Bogie Stake Wagon Set (2)



PK38900 CSX Rib Sided Hopper w/Coal Load



PK38902 Vintage Warbirds P51
Hopper Wagon



PK38904 Christmas Box Wagon 2020



PK38906 PRR Wooden Caboose 461221



PK38907 D&RGW Wooden Caboose 0501



PK38910 Vintage Warbirds P-38
Hopper Wagon

LONDON'S LEADING MODEL RAILWAY SHOW



WARRIOR
SHOWS

BRM

GRAHAM
FARISH

40+ LAYOUTS • 100+ TRADERS/SOCIETIES • LEARN FROM EXPERTS



RMweb

EUROPE
PIC

TICKETS ON SALE!  MODEL-RAILWAY-SHOWS.CO.UK

SAT 10AM - 5PM & SUNDAY 10AM - 4:30PM | ADVANCED TICKET HOLDERS 9:30AM EARLY ENTRY

ALEXANDRA PALACE, N22 7AY | TICKET HOTLINE 0844 5814972

FREE PARKING OR SHUTTLE BUS

ALL ABOARD - For Model Train Sales Friday 20th March & Friday 24th April 2020

Thornaby Auction Rooms at 10.30am

A good selection of G Gauge in all sales

Our next Model Train sale will be held on Friday 20th March 2020 and then we hold one every month of the year featuring over 600 lots. During 2019 we had a good selection of G Gauge and Large locomotives, Rolling Stock and Accessories. We are always looking for similar items for our Model Train sales.

So whether you have Gauge Z or 5" Gauge, or anywhere in between, whether it's single items to a whole collection for our specialist train sales, if you are thinking of selling why not get in touch with our friendly team and we will be happy to talk to you about putting them into auction.

Contact: Michael Bond

on **01642 750616**

email: michael.bond@vectis.co.uk

Mike Delaney

on **01993 709424**

email: mike.delaney@vectis.co.uk



(Prices realised)



For more information regarding forthcoming sales visit our website
All Vectis sales are Room Auctions. Live internet bidding available at
www.vectis.co.uk & www.invaluable.com

Vectis Auctions

Fleck Way, Thornaby,
Stockton on Tees
TS17 9JZ

Oxford Office

Unit 5A, West End
Industrial Estate, Witney,
Oxon OX28 1UB

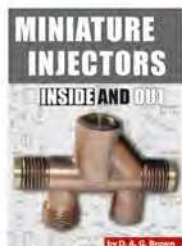
Vectis

TOPIC OF THE
MONTH

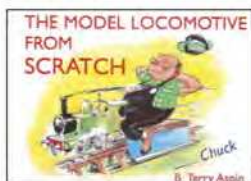
MODEL STEAM LOCOMOTIVES

RARE AND OUT OF PRINT BOOKS

See our website for prices and our full range of books



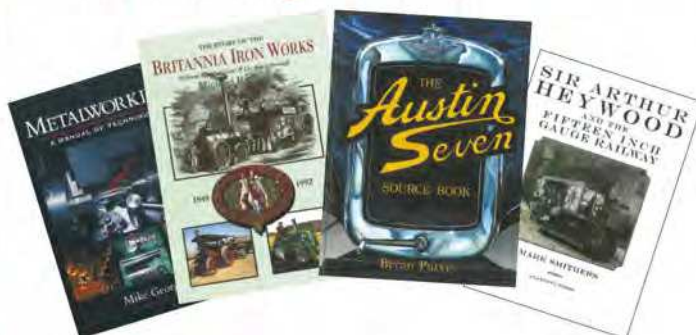
Was £14.95
NOW £10.00



Was £8.95
NOW £6.00



Was £12.95
NOW £10.00



Offers valid until end of April 2020

OUR RANGE INCLUDES BOOKS ON THE FOLLOWING TOPICS:

- Aeromodelling and IC Engine Building
- Boilermaking, Soldering, Brazing and Welding
- Casting and Foundrywork for the Amateur
- Clock and Clockmaking
- Electrics - Motors and Projects for the Modeller
- Farm Tractors
- Garden Railways
- Gears and Screwcutting
- Hot Air Engines
- In Your Workshop
- Industrial Archeology
- Lathes and Other Machine Tools
- Marine Modelling and Steamboating
- Model Steam Locomotives
- Painting and Finishing Your Model
- Stationary Steam Engines
- Steam Road Vehicles and Traction Engines
- Woodworking and Woodturning

SEE ALL BOOKS ON OFFER AND ORDER NOW

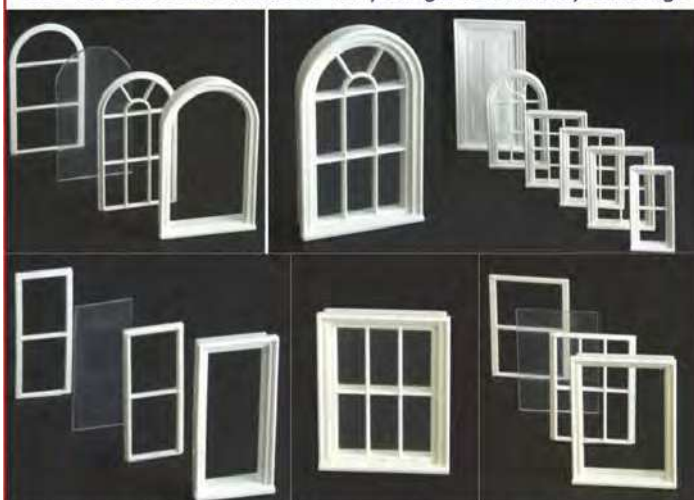
W: www.teepublishing.co.uk T: 01926 614101 E: info@teepublishing.co.uk

Follow us for the latest news

 @TEEBookshop  TEE Publishing Ltd

Jackson's Miniatures
Please visit our web site
www.jacksonsminiatures.com

We supply the parts. You provide the magic!
Use our doors and windows for your garden railway buildings



Each window has an outer frame, front glazing bars, and rear insert to hold in a piece of glazing. Also available - Georgian style components



L08 - Victorian front door - £2.40
L09 - Victorian 4 pane window - £1.70
L10 - Victorian 6 pane window - £1.70
L11 - Victorian 12 pane window - £1.70
L12 - Victorian 2 pane window - £1.50
L13 - Victorian round top window - £1.80
◀ Georgian style components from - £1.20

Old Fir Tree Inn, Peacemarsh, Gillingham, Dorset SP8 4EU
tel: 01747 824851 e-mail: info@jacksonsminiatures.com

Design and manufacture of live steam locomotives in 16mm and 7/8ths scale.



www.wilsonlocomotives.com.au

info@wilsonlocomotives.com.au



Instagram

Gauge 1 loco? Build a kit



Andrew Charman visits Barrett Model Locomotives to discover the delights of Gauge 1 live-steam kit building.

Many a model show visitor has enjoyed watching the methyated spirit and coal-fired locomotives in action on the Gauge 1 Association's huge oval layout, and perhaps desired a loco of their own and been tempted by the kits available in this scale. But how much time, skill

and expense is involved in building one of these kits – are they beyond the means of the 'average' modeller?

To find out I visited a long-established manufacturer of Gauge 1 kits – Barrett Steam Models celebrates its 40th anniversary this year. The innocuous exterior of the Barrett works, based in

a former telephone exchange, conceals a hive of activity within the compact premises.

First some history; the company came into existence like so many others in our hobby – Steven's father John Barrett, on being made redundant, decided to keep himself busy while looking for new employment by building LBSC's *Chingford Express* 0-6-0 from a set of plans he had been given years before. He took his finished loco to a Gauge 1 get-together and was asked if he could make another, and another...

Eight years on John was set up in a workshop in his double garage, spending on average 10 hours a day six days a week at his bench and producing mainly scratchbuilt, ready-to-run designs. Each took some time to develop from hand-drawn artwork – they included a few etched brass components, while John had been using laser-cutting since the mid-1980s, working on one of the first such machines installed in Liverpool. His knowledge extended to basic pattern work and casting, but each model was usually a one-off production on a custom basis.

A major advance was when Steven returned from university with a



Jamie, Sheila, Steven and Richard, Graham was on holiday.

knowledge of CAD, and using an early 286 computer he was able to draw up masks for etching. He went off “to do a proper job” in industry for a while, but when in 1995 he was asked to take on a night-shift fitter role he decided against it. “Dad said I needed to support my wife and mortgage so while looking for another job I started on the lathe making bits and pieces for a coal-fired Britannia. I’ve been here ever since and I still have a wife and mortgage!”

For a while Barrett was just John, Steven and his brother but once they moved into the former telephone exchange the firm gained some employees. “There were eight of us at one time, we took it in turns to breathe! We’ve shrunk a bit in the last couple of years as one of our 70-year-olds moved out of the area, the other 70-year-old retired and we persuaded the 80-year-old to take it easy too!”

The staff are somewhat younger now, numbering five. Company founder John died in 2015 and today Barrett Steam Models comprises Steven, his wife Sheila, Graham Coombes, Jamie Steane and Richard Morris. The latter two were both taken on as apprentices and put through college to teach them machining and engineering skills.

Richard has been with Barrett for two and a half years and is still training as a model builder, while seven-year veteran Jamie now looks after the machines. “One job might last a day, others two or three – he sets the machine and produces an afternoon’s worth of parts then likely does a totally different job the following day. This keeps the interest – Jamie knows mates who left the college course with him and are still pushing the same buttons on the same machines.”

BARRETT KITS

Barrett’s first kits were the result of increasing demand for more extensive detail on the ready-to-run commissions, which inevitably pushed their price up. “In the mid 1980s prices for such models were getting towards £4,500-£5,000 each, while many customers were still in scratchbuilding mode and increasingly asking us for parts.

“Dad had produced a basic kit for ‘City of Truro’ some time previously, supplying a set of plans, rough castings,



A 2P and some of its component parts.

a set of etched parts and the bolts, nuts and springs. In 2000 we resurrected it – with digital cameras it was simple to produce a pictorial instruction set which made it much easier to explain to non-engineers or model makers how to assemble these engines. To read a traditional set of model engineering plans is an art in itself, they are not even like industrial drawings.”

Barrett was soon producing more and more kits, but inevitably prices rose out of the reach of especially several of those newer to the hobby, who were looking for cheaper options; “We were often getting people say ‘It’s a lot of money for one of those and I don’t think I have the skill to build it.’”

The result was the first Barrett Starter Kit, the J38 0-6-0. This was chosen

because of its simple design with straight sided tanks and no rivet detail to emboss, a simple chassis with six driving wheels, a tender with plenty of space for water and meths fuel, and a large boiler which generated plenty of steam ensuring the loco was easy to drive.

“There were no splashers or lots of other curves and we decided what curved parts there were, such as the boiler wrapper and cab roof, we would supply finished. It was a really simple starter kit and sold very well,” Steven adds.

The J38 was soon followed by the Midland 2P 4-4-0, slightly more complex with its leading truck and more complicated tender design. This loco also includes a combined splashers and cab side which would be a quite difficult part for the home builder to form in sheet metal, so Barrett worked



The J38 is a popular starter kit, simple to build and easy to run.

Jamie hard at work assembling a tender.

with its casting supplier to supply this part finished.

Today's Barrett models cost from around £1,200 to £3,200 and the range still includes highly detailed 'top-end kits' such as the coal-fired Royal Scot, but the starter kits remain perennially popular. The current starter range as of early 2020 includes the J38, the Midland 2P, a Great Eastern Railway J65 0-6-0T and a Great Western Railway 14xx 0-4-2T – so is the firm catering for a generally less-skilled market or a much wider one?

"It's wider, all ages," Steven believes. "We have model engineers who have built 5-inch and 7-inch gauge locos downsizing and very often trying a starter kit at about £1500, to see both if they get on with Gauge 1 and trying us out for not too much expenditure. Then they will come back and buy one of the top end of our range, because they can build it and they like what they get."

At the other end of the scale is what Steven describes as the 'Airfix' modeller, previous experience confined to assembling plastic kits; "When a new customer comes in I try and ask them a few questions to see where they are on the scale between Airfix and scratchbuilt. Newcomers to the hobby I will point towards our less complicated kits and tell them the complex model they are tempted by they can do later – 'Let's get you up and running on your new hobby.'

"In the past 10 years we have seen a lot of baby boomers and those with pension pot payouts looking for a new hobby, and they come in looking to buy something like the Royal Scot and I have to gently explain that's not where you start."



WHAT'S IN A KIT?

According to Steven the great appeal of a kit such as Barrett supplies compared to traditional live-steam loco construction is that while there is plenty involved in the building, a model can be completed and running in a much shorter time – around 200 hours for a starter kit. And this can be done without requiring a full workshop as there is no machining involved, only

drilling, tapping, some edge filing and soldering. This is mostly lead plumber's soldering, some electrical soldering for detail components and a little silver soldering of fittings onto copper pipe.

"In terms of workshop equipment you need a decent bench vice, some files, a hand drill, bench drill, some taps and dies and somewhere to do some soldering. It's probably around £250 to set yourself up, and this appeals both to new starters and older modellers who might have downsized their home or even moved into a care home, and no longer have access to a workshop."

A kit comprises all the mechanical components needed to build a steam engine; "everything except paint, solder, transfers and patience!" Kits include two or three sheets of etched components, each measuring 2ft x 1ft, and a number of cast pieces that need cutting off



Described as an "advanced kit", this GWR 72XX tank is available in static and spirit fired forms.

their moulding plug, filing, trimming and preparing for soldering into sub-assemblies.

The boiler is built and tested by Barrett; "This is the one bit that puts many off building a loco, because it is a pressure vessel, so we look after that and supply it complete."

From the starter kit, the range stretches up through a number of models, each described on the Barrett website with its difficulty level indicated. The top-end models appeal to the established model engineers; "They need to be fairly skilled in filing, fettling, drilling and tapping, sheet metalwork forming, soldering – there's enough to keep an experienced model engineer interested while providing them with a loco in quite a short time."

All kits are supplied in stages; "We like payments over 12 months and we deliver a pack every quarter," Steven says, adding that every kit comes with technical backup and advice available at the end of a phone.

Currently some 20 locos are listed on the website – all Barrett models are produced in batches for economies of scale, and what is on offer changes as batches of models are completed; "Once we have done a batch we might leave it five years or so for demand to grow again," Steven says, and admits that the firm's product is quite wide ranging;



A J38 out on the track. (Photo: Matt Scrutton)

"Dad was brought up in Bath and his principle was that if it ran on the Somerset & Dorset he'd make a model of it – that covers a lot of regions!"

Steven sees the Gauge 1 scene as pretty healthy right now and adds that this has been helped by the likes of Accucraft with ready-to-run models.

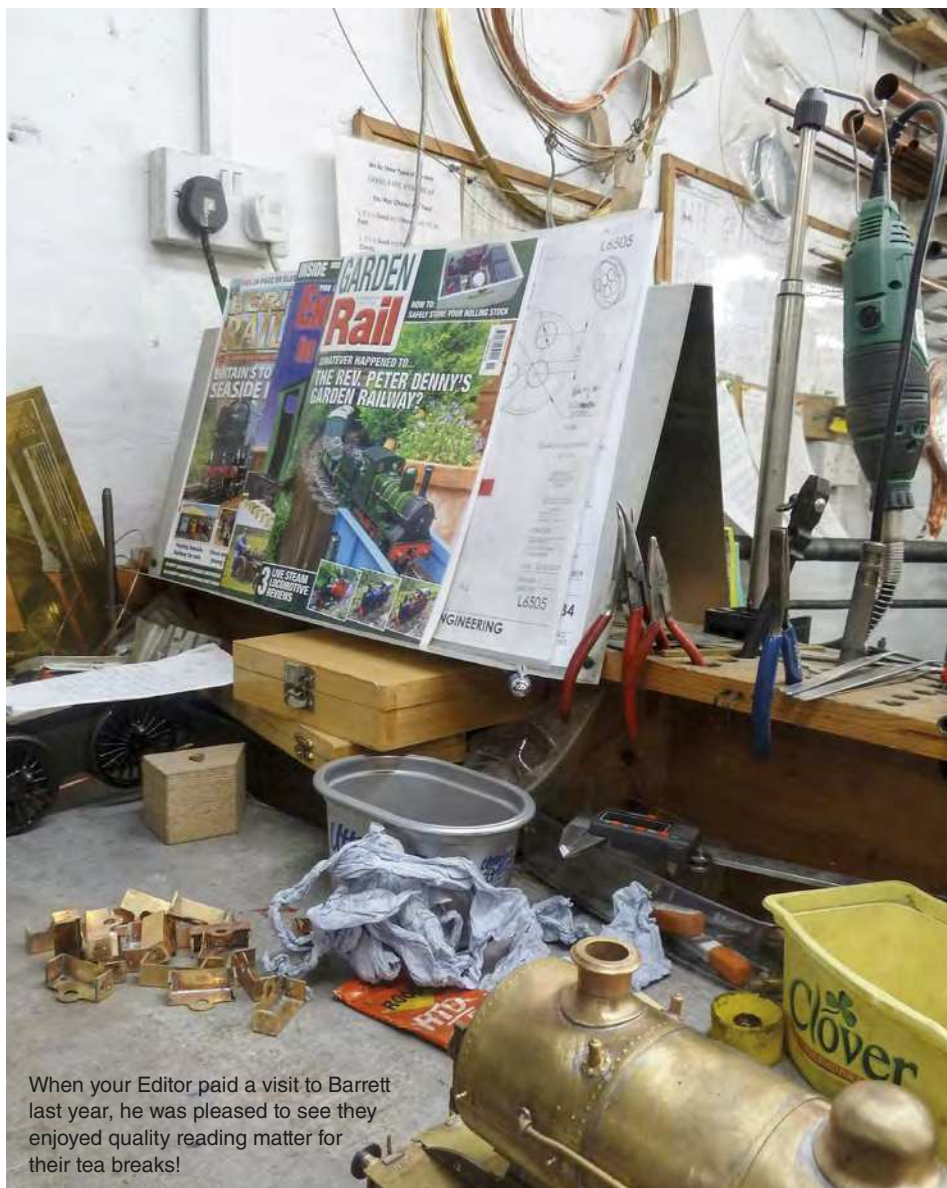
These introduce many to the hobby, who then move onto something more complex such as a kit. While the likes of the Accucraft models are gas-fired, most of the Gauge 1 scene has remained using either meths or coal, not following the move to gas as has for example 16mm scale.



A 2P awaits its turn on the track. (Photo: Matt Scrutton)



GER J65 being steamed at the London Model Engineering Exhibition last year.



When your Editor paid a visit to Barrett last year, he was pleased to see they enjoyed quality reading matter for their tea breaks!

FUTURE PLANS

Barrett expects to add new models to its range in 2020, including an expansion into Gauge 3, 2-inch gauge with again an 0-6-0 tank as a starter kit. In Gauge 1 a GWR Dean Goods and a Midland Johnson 2F could be on the cards, plus possibly another prototype depending on the number of orders for each batch.

And of course there is also an anniversary to celebrate, both by attending lots of shows and staging a special get-together. This will be at the Chasewater Railway, in north Birmingham on 13th-14th June. Barrett model owners will be encouraged to bring along their locos and run on the firm's portable track, 'Midsummer Norton', which will be set up in the railway's heritage centre – a fun weekend to celebrate a special birthday.

Many Garden Rail readers will know that writer is basically a narrow gauge man but I left Barrett Steam Models sorely tempted to build one of the firm's kits! If you are too, more details are on the website. ■

Garden Rail Resource

Barrett Steam Models

The Old Exchange, 47A Coronation Road, Pelsall, Walsall, WS4 1BG
www.barrettsteammodels.co.uk

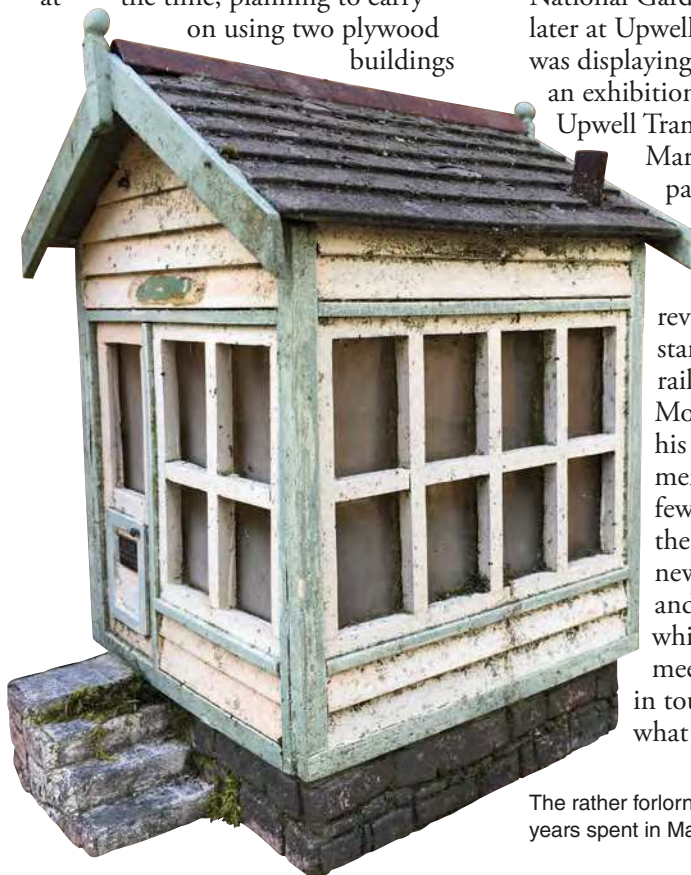
Please mention **Garden Rail** when contacting suppliers.

A new lease of life for a small signal box



Daniel Cousins breathes life back into an old Modeltown model

The subject of this article is a small signal box by Modeltown, and like the Jaguar I wrote up in **GR300**, I ended up purchasing it and giving it a new lease of life. As with the Jaguar, I wasn't looking for a signal box at the time, planning to carry on using two plywood buildings



that my father and I built a few years ago, but yet again, I gained a tremendous amount of satisfaction saving it from ending up in the bin.

Earlier this year I bumped into Mark Thatcher a couple of times; once at the National Garden Railway Show then later at Upwell Church where Mark was displaying some of his models at an exhibition about the Wisbech & Upwell Tramway.

Mark is well known in these pages and I am sure most readers will already know that from his articles and building reviews. However, he also started my local model railway club, the Wisbech Model Railway Club from his conservatory. Club membership grew and after a few years the club out-grew the conservatory, moving to new premises in Wisbech, and we lost contact for a while. After the second meeting we promised to keep in touch and that's exactly what we have done.

The rather forlorn looking signal box after eleven years spent in Mark's garden.

MORE BUILDINGS NEEDED

I have now started planning a new garden railway as the last one had to be lifted due to a house move. The new railway needed more buildings and Mark mentioned that he was going to sell his collection of Cain Howley concrete buildings along with some others. I was interested in building up my own collection so we met up and shortly afterwards I had a small village!

Amongst the buildings I purchased from Mark was this Modeltown signal box. He had owned it since 2008 when he first built it for the Dovecote Light Railway and it has been outside ever since.

The model had fared quite well and truly it looked worse than it was, as it was structurally sound. The most obvious thing that needed doing was a good scrub to clean off the moss and replace the glazing as this had yellowed considerably.

My first task was to attack it with a small stiff brush to remove all the dirt, grime and moss using warm soapy water. I then removed the fascia boards so they were easier to paint and I also separated the body of the cabin from the stone base. The old glazing was removed and thrown away and the whole building was sanded in preparation for a

The newly installed interior, complete with a signal woman. You can just make out the glow from the stove too.

new paint job.

The first part of the building to be painted was the roof and this was completed by Mark during one of our meet ups using the sponge painting technique. I did weather the roof slightly using a yellowish colour to represent the moss that accumulates on roofs, then I painted the

Sponge painting technique was used to repaint the roof and weathered further using yellow paint to represent the moss that grows on roofs. The chimney was weathered a rusty colour and rust streaks were added to the tiles underneath.



fascia boards with Humbrol blue, No 15. After the fascias had dried I refitted them, then turned my attention to the stove chimney. I painted the stove chimney a rusty black colour and added some rust streaking on the roof tiles below the chimney.

WORTH MODELLING

Mark had previously added two brass signs to the cabin, one a notice and one that says 'SIGNAL DEPT.' These were carefully removed and polished. I painted the cabin in my chosen colour scheme of dark blue and cream, then cut out and glued in some new glazing. That just left the stone base to be restored.

This building has windows on all four walls so an interior was essential as it will be easily visible from the outside. Mark had added some lever frames and a stove when he initially built the building and I decided to keep

these features. I gave the lever frame blocks some black paint and painted two levers blue for points, one yellow for a Distant Signal and finally one red for the Home Signal.

The floor received a coat of wood colour and once it was dry I added a wash of black to bring out the planking. I had in stock a pot bellied stove from Trenarren Models which features a working light. It was painted a satin black and once dry I set about fitting it to the base and wiring it up. The stove is designed to be wired up to a 9v battery and a 9v snap on connector is included.

I worked out where I planned to pass the wiring through and drilled a

hole in the base. The wire was threaded through and everything was connected up before I realised that the battery itself was too deep to sit underneath without lifting up the model from the ground. I didn't fancy carving out some of the base so considered building a coal bunker beside the cabin to disguise the battery.

Luckily for me, Mark had in stock some small pyramid shaped rubber feet from B&Q, six of these were added to the base giving the model enough clearance for the battery to fit underneath. Mark also kindly gave me some small slate tiles for the stove to stand on and a plastic token machine.

SIGNAL BOX TOKEN MACHINES

I Googled signal box token machines and found a green one similar to my one which provided painting details. A suitable female figure was found, painted and fixed in place.

Just inside the door I modelled a door mat from a small piece of brown fabric and glued it down with some PVA glue. The PVA glue soaked into the fabric slightly then dried a darkish colour and it looks very effective thankfully.

Behind the signal woman. I scratch-built a desk from scrap wood and painted it a dark brown colour. On the desk I placed a tea cup, saucer and clock, all doll's house items, and some timetables which I cut out from some O gauge posters I received free in a modelling magazine some time ago.

The final job was to refit the two brass signs and reattach the main building to the stone base. Sitting back and admiring the small signal box, I experienced the very same satisfaction I did when I saved the Jaguar knowing I have given a second model another lease of life, hopefully for at least another 11 years or so! ■



Compare this to the first shot before the restoration. Quite an improvement!

Garden Rail Resource

Modeltown

6 Station Road, Halton Holegate,
Spilsby, PE23 5PB
www.modeltown.co.uk
Low level signal box with wood or
slate base - £45.00

Trenarren Models

2 Brynglas Walk, Tywyn, Gwynedd,
LL36 0BB
www.trenarrenmodelsonline.co.uk

Please mention **Garden Rail**
when contacting suppliers.

Sea Lion and the 3D printed Bears



If you want to be sure of your article appearing in *Garden Rail*, just build a model of the Editor's favourite locomotive as Nick Midgley has done.

The Groudle Glen Railway (GGR) in the Isle of Man is a true pioneer in that, unlike most narrow gauge railways, it was never built as a common carrier or for industrial purposes. It was one of the first lines built exclusively for hauling tourists.

Had it been built a few years later it would probably have been a 15inch gauge miniature railway but in 1894 such things were unknown so it was laid to the more common 2ft gauge.

The owner purchased a diminutive 2-4-0 tank loco from W.G. Bagnal & Co. called "Sea Lion" and, when traffic increased, a slightly larger sister loco: "Polar Bear". The railway closed down in the 1960s but, thanks to a small band of volunteers on the island, is now very much thriving again.

My main modelling efforts lean towards the Isle of Man Railway in

45mm gauge, to a scale of 16mm/ft (which is a long story...) however, most of my friends seem to be obsessed with 2ft gauge railways on 32mm track, which is a problem for me as it is a pain to re-gauge my locos when I visit them. I did build something Welsh to run but my heart isn't really into rock hauling.

Being an idiot, it took far too long for me to realise that a model of a GGR loco would give me something different to run and be of a railway I was really interested in. I decided to model their new loco, Brown Bear, which is a replica of Polar Bear, as I had a small part in its building and already had some of the drawings available. Brown Bear and Polar Bear are also longer than Sea Lion (by 3 inches) so there would be more room for the gubbins.

Although a live steam model would

be possible as an engineering project, the diminutive boiler wouldn't have a very long duration and wouldn't be very practical operationally amidst the hurly-burly of the average 16mm Association meeting. Also, I have recently bought a 3D FDM printer so it would be a good way of testing my limitations.

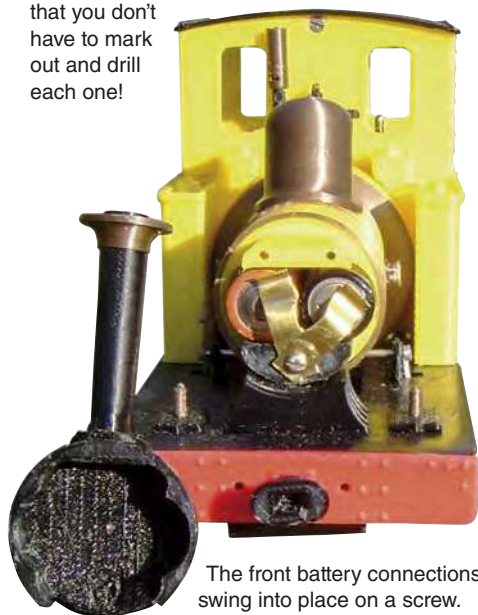
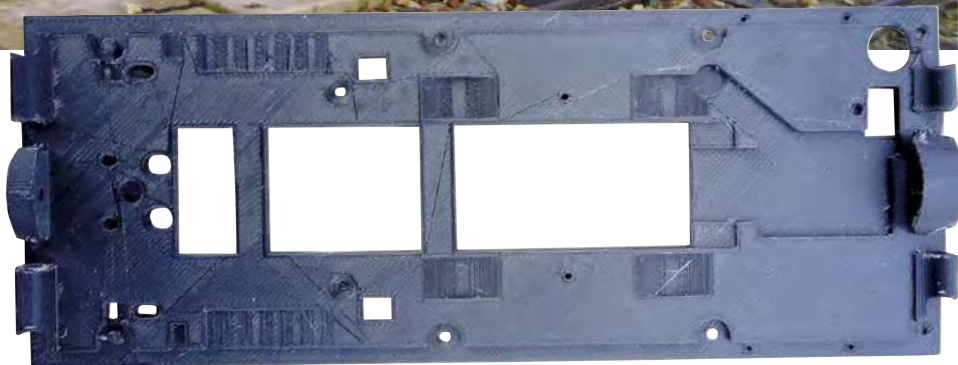
One of the disadvantages of 3D print is that it is difficult to make changes post print so everything really needs to be right first time, which means a lot of Computer Aided Drawing (CAD) work, hopefully before spending hours printing scrap parts!

I find the design aspect of modelling more fun than the tedious cutting of the parts by hand so this suits me fine. The part drawings for this article have been rendered to make them clearer but this makes my elderly PC cough quite a bit so I usually work in "wireframe" mode,

2ft gauge locos visiting the 3ft railway, thanks to a length of printed Jubilee track. This gives a good impression of the size of the Groudle locos compared to a Ffestiniog loco (also 3D printed) and the Isle of Man Railway coaches. It really is a tiny loco.



The footplate is 2mm thick and has cutouts for the wheels, slidebars and wiring. Also there are blocks front and rear for the couplings to screw into. Plus 21 other holes and slots for assorted screws and tabs. It's easy just to add a few more fixings on the drawing when you know that you don't have to mark out and drill each one!



The front battery connections swing into place on a screw.

The little red and black dots over the batteries indicate the polarity. They are short lengths of coloured filament pressed into holes and were added once I worked out which way round the batteries needed to be to match the wiring at the other end! The rough inner face of the smokebox can be seen but it is hidden when slid onto the boiler.

where all the parts are see through but this is harder to visualise.

The parts are shown in the accompanying sketched as exploded but everything was actually drawn in its rightful place to check the fit. I also apologise for the lurid colours, my CAD has a limited palette and I need to make each part stand out!

The first problem to address was: where are all the bits going to go? A live steam loco can be designed to almost any scale but the design of an electric model using off the shelf components is more restricted. First I needed to find out if the batteries and motor would fit.

One advantage of drawing in 3D CAD is that one can build up a library of common parts, so it was easy to produce an outline 'envelope' and insert virtual batteries, motor and gears. I

wanted to use AA 1.5V cells as they are common to my R.C. equipment and I hoped to fit at least 3 rows of 2 cells in a triangular formation to give 9 volts. Unfortunately that would have resulted in a boiler shell thickness of only 0.2mm. and my printer has a minimum resolution of 0.4mm.

So, the loco has 2 rows of 2 batteries side-by-side. The overall length of the batteries meant I would also have to extend the firebox into the cab further than scale but hopefully this isn't too noticeable.

The driving wheelbase is only 2ft 6ins (40mm) which meant that even the small 6V can motor I used wouldn't fit between the wheels. I wished to drive both axles by gears as the coupling rods would be printed and I didn't want the plastic taking any of the driving

Exploded CAD drawing of the main parts. The boiler is in three pieces, as described. Also shown is the separate 'brass' horseshoe to represent the joint between the firebox and boiler barrel. There should be a gap in the footplate in front of the smokebox but this is filled by the block which stiffens the coupler mounting behind the bufferbeam.

forces. The motor therefore sits in the firebox above the rear wheels and drives a layshaft through spur gears, with worm drive to the wheels.

After fiddling around with various combinations of virtual gears, I ended up with primary gears of 16 and 30 teeth to the layshaft and worm gears of 16 teeth on the axles, making a total reduction of around 30:1. The motor has a no-load speed of 10,000 RPM at 6V, so the light engine speed would be about 20 metres per minute, or a scale 13mph. Not fast, but neither is the full size Brown Bear.

The gearbox was designed as a complete unit, split in half lengthways with a keeper plate underneath to retain the driving wheels. The layshaft bearings were printed separately as little tophats (although they have square flanges to stop them turning, so should strictly be called mortar boards). The whole gearbox rocks fore and aft on two screws through the loco frames to form part of the equalised suspension.

I'm a great believer in making all vehicles run as smoothly as possible so I always give my locos 3-point suspension, to make sure all the wheels bear their fair share of the load but stay firmly on the track and all carrying wheels have side control to steer the loco round curves.

There are formulae on line for calculating the correct pivot point of the pony truck in relation to the wheelbase. (Search for "Baldry's Rule") but I

This is what all those CAD drawings emerge as after a few hours on the printer. Of course, there are more parts than this...

also draw a "curving diagram" in plan view to show the worst-case swing of the pony truck at the minimum expected curve radius. I checked that the pony wheels of BB just miss the crossheads and motion bracket at 600mm radius.

The calculated point for the pony truck pivot puts it just ahead of the leading driving wheels (strangely enough, right where it is on the full-size loco!) so it was made as is part of the gearbox. The weight of the front of the loco bears on a vertical screw through a frame stretcher directly above the pony wheels onto 2 inclined planes printed as part of the truck. The inclines rise less than 0.5mm from the centre to maximum swing but form a simple self-centering

Exploded CAD view of the running gear. The motor and gears are shown in fetching pink and the tophat bearings for the layshaft in green.

device so the pony truck really does guide the loco into curves. The couplers are almost scale size and even the front one doesn't buffer lock the coaches.

To balance the batteries and ensure that most of the weight is over the drivers and not over the pony wheels, there is a rectangular brass ballast weight under the cab. I didn't overdo the ballast as I would rather the wheels slip than overload the motor. Unfortunately the weight fills the space where the cab footwell should be so I will have to saw the driver's feet off.

Although it is possible to print everything above the footplate as a single piece, it isn't really practical. The late Donald Boreham, one of the pioneers of large scale narrow gauge modelling wrote: "if it can be taken apart it can be painted easily". Mistakes can also be corrected more easily if printed in sections and if one part messes up the whole model isn't lost.

Some of the parts take around 10-15 hours to print so there is a temptation to leave the printer to get on with the job unattended. However, sometimes I come back to find it printing fresh



The start of a printed Groudle train. The coaches are also printed. The seats should have flip-over backs but they are a bit thin for printing and will have to be made in brass. Three coaches was the usual load but there are four different designs and I want to make at least one of the other types for variety

air because the feed has jammed or printing a ball of string where the part has broken free or fallen over.

Separating the model into parts also means that the prints can be oriented to give the best quality. Printers leave a 'grain' on the surface equal to the vertical steps in the print layers (0.1mm in this case). On curved surfaces this leads to a nasty stepped finish. Reorientating the parts on the bed helps but then they still need a flat face to stand on.

Because of this, the boiler was printed on end so the grain runs around the circumference rather than end to end. It is made in 3 sections: the main barrel and firebox, which is flat against the front of the cab; the firebox inside the cab, which is flat at both ends and incorporates channels for the battery terminals and wiring; and the backhead which has a flat front and the firedoor and fitting detail on the back. Long screws inserted from the backhead draw all the parts together and clamp the boiler to the cab front as a subassembly.

The other aspect to consider with 'domestic' printers is the support needed for overhangs and blind holes. These take the form of a printed mesh and leave a rough face where they touch



the printed part. More sophisticated printers have two nozzles, one of which can print soluble supports, but mine prints the support as a web in the same material as the part. If supports can't be eliminated I try to avoid them by designing in hidden 45 degree fillets (the minimum angle the printer will print without support), which I did with the tank beading and handrail brackets, or burying the rough face inside another part, such as the smokebox.

As a further experiment for Brown Bear, I split the parts into different colours. It makes the design and assembly more complicated but avoids the need for a lot of masking off for painting. I also printed the loco in coloured plastic, which was a bit of a novelty but not intended as a final finish as the colours fade over a long period in sunlight.

The PLA plastic I used for the print is tougher than polystyrene but doesn't glue very well so most of the parts are screwed together using M2 setscrews. I find that if I print the part to be threaded with undersize holes then the

screws will self tap quite easily. Details too small for screws have tabs and slots or spigots in holes so that any glue used (superglue or epoxy) acts as a retainer in shear rather than being in tension.

At time of writing, Brown Bear is still in bare plastic (mainly because, having got it working, I am still having fun 'testing' it). The yellow is one of the authentic liveries for Polar Bear but Brown Bear should be something akin to Stroudley "Improved Engine Green".

Meanwhile, I was sidetracked into building Sea Lion. The cab spectacles are round instead of rectangular and, due to the 3in reduction in length, the batteries have to poke into the cab still further but otherwise it was a fairly painless modification to just a few of the parts.

After a trial assembly, I did paint Sea Lion. The base is several coats of automotive high-build primer, carefully rubbed down between coats using fine wet-and-dry paper rubbed across the grain, and a rub with a fibreglass brush in the tricky areas. The final undercoat is spray primer, not rubbed down, to give a smooth surface.

Top coat is brush applied from a very old tin of Humbrol "SR Stock Green", which is a fair approximation of Sea Lion's 1980s "Sellafield Green" (Although, with hindsight, I think it should be "Middle Brunswick"). Lining is Fox Transfers' 7mm scale LNER loco lining. The dome, whistle and boiler bands are turned from brass, while the other sundry brasswork is spray metallic finish.

Despite my best efforts, I have enough semi-reject parts left to build another loco as a static model so I'm in the process of building Polar Bear to complete the set. ■



For the 1961 and 62 seasons, Groudle stock received the so-called "fairground livery". Your Editor challenged me to apply it to one of my models. The result is certainly "interesting".

MODELTOWN

www.modeltown.co.uk



UK's leading manufacturer of resin figures and building kits
Visit our secure online shop where all major cards are accepted

Beechholme, 6 Station Road, Halton
Holegate, Spilsby PE23 5PB
Tel: 01790 612237

www.modeltown.co.uk

LISIACRAFT

Arben Blume, Rue des Marais,
Vale, Guernsey, GY6 8AX



3D printed wagon kits - 16mm/1:19 scale.
Available for 32mm or 45 mm gauge.
All parts included

Fully insulated wheels with steel rims.
Brass wheel bearings for smooth running



Supplied unpainted
Superb detail
Sprung buffers.



3 plank wagon - curved ends - £27.00
3 plank wagon - flat ends - £27.00
Flat wagon - £24.50

Tel: 01484 251168 E-mail: lisiacraft@outlook.com

AUTOCOLOURS

AUTOMOTIVE REFINISHING SOLUTIONS

Looking for the perfect match paint for your locomotive or wagon?
We can guarantee we can do this, at a cost effective rate.



Call us now on 01745 344457

Unit 8-9 Parc Fforddilas, Fforddilas, Rhyl LL18 2QD
info@auto-colours.co.uk • www.auto-colours.co.uk

TRACKSHACK Live Steam Garden Railways

Accucraft Live Steam Locos
Booking Now

Dates and prices may vary
NEW! Large Quarry Hunslet 0-4-0ST



Due Late 2020, blue, black, red or Penrhyn lined black livery.
Manual only estimated price £1595 Book yours now!

In Stock 7/8ths Kerr, Stuart 'Wren' 0-4-0ST, blue black or green, £1695 manual only.

NEW BATCH! Dolgoch 0-4-0WT In Stock, £1595

manual only. Available in 32 or 45mm gauge, colours are Atlas Green, Indian Red or TR Green.

NEW! Tallyllyn 0-4-2ST Due Early 2020 or later, estimated price £1650, 32 or 45mm gauge, available in TR Green, Indian Red or Black.

Talgarth 0-4-0T & Sabrina 0-4-0ST In Stock Man. £1095, R/C £1395

NEW! Cavan & Leitrim 4-4-0T Kathleen or Lady Edith, in lined C&L Green, GSR Grey or Satin Black versions, 45mm gauge only. Man £1950, R/C £2250, 2020 or later.

NEW! Lawley Beira/SAR 4-4-0 tender, due late 2020 or later, est. price £2995, in Beira Green, SAR Green and SAR Black.

In Stock. 7/8ths Bagnall 0-4-0ST Man. £1295, R/C £1595

In Stock IOM Mona 2-4-0T, Ailsa Green Electric only £1325
All Roundhouse diesel locos are built to order in approx. 16 weeks
Hercules 0-4-0D Radio control battery electric £560



Merseysider 0-4-0D R/C battery electric £755, with sound £875

Harlech Castle 0-6-0D R/C Battery electric £935, with sound £1075, FR yellow band additional £40

Darjeeling NDM6 0-4-0D, R/C battery electric £1275 sound £1380

Bulldog 0-4-0D R/C battery electric £647

Roundhouse Live Steam
Booking Now



NEW! Davenport 0-4-0ST Nov 2020, Man £1625, R/C £1850
Clarence 0-4-0 Tram April 2020, Man £1565, R/C £1700



Leek & Manifold 2-6-4T May 20 Manual £1835, R/C £2060

WD Alco 2-6-2T Apr/May 2020, Manual £1938, R/C £2173

David Lloyd George 0-4-4-0T Double Fairlie July/Aug 2020 R/C Only £4100

Darjeeling B 0-4-0ST Aug 2020 Manual £1965 R/C £2180

Darjeeling Garratt R/C only Aug 2020, £3900

Lilla 0-4-0ST Sept 2020 Manual £1605 R/C £1835

Katie 0-4-0ST Oct 2020 Manual £1370, R/C £1615

Lady Anne 0-6-0T Dec 2020 Manual £1440, R/C £1625

Billy 0-4-0T Jan 2021 Manual £1370, R/C £1615

Fowler 0-6-2 tender, Mar 2021 Manual £1655, R/C £1885

Russell 2-6-2T, April 2021, Manual £1761, R/C £1930

Silver Lady 0-6-0T Apr 2021 Manual £1735, R/C £1955

Basic Series - Bertie, Millie & Sammie, all £675.

Jennie, 0-4-2 tender £799.

All built to order, delivery currently approx. 16 weeks.

Accucraft IOM 'G Vans' in stock, all types..... £80

Peco SM32 & G45 Track

SM32 Buffer stop kit.....£5.00
SM32 1 x 3' flexi track.....£9.00
SM32 12 x 3' flexi track....£96.00
SM32 6 x 30"rad curves ..£48.94
SM32 6 x 38" rad curves..£48.94
SM32 60" rad points L,R..£48.00
SM32 Y Point.....£48.00
SM32 38" rad points L&R..£45.00
G-45 1 x 3' flexi track£14.15
G-45 6 x 3' flexible track ..£83.00
G-45 6 x 2' radius curves ..£48.60
G-45 6 x 300mm strts.....£48.60
G-45 48" rad points L&R..£66.14
G45 Buffer Stop Kit.....£4.92

FREE UK DELIVERY on all orders over £200. Smaller orders no more than £4 per shipment. For quality customer service and delivery, ring Neil, Pete or Harry on 0330 0885759 (UK local rate) or shop at www.track-shack.com Prices as of going to press, include 20% VAT. E&OE. TrackShack Ltd, Unit 4 Olive Court, Ramsey Road, Peel, Isle of Man, IM5 1RH. Tel: 0330 0885759 (UK local rate) Mon-Friday 0900-1600. www.track-shack.com



Over 30 different high quality, easy to build, laser cut rolling stock kits available across the range, with more on the way during 2020

For more information check out the Facebook Page or enquire by E-mail



1:19 South African Railways 2ft Gauge Carriages & Wagons



1:19 Royal Naval Armaments Depot Wagons



1:19 Whipsnade Railway Carriages



1:13.7 & 1:19 Hudson Wagons

E-mail: davidwilliams42@btinternet.com

Facebook: @ResurgamRollingStock

FREE TICKET



To the National Garden Railway Show, the biggest garden railway show in the world – Peterborough Arena, Saturday 4th April 2020.

5 issues of for £5

2 EASY WAYS TO SUBSCRIBE!

ONLINE: www.gardenrail.co.uk

Click 'subscribe' and enter promo code GDR/APR20

CALL: 01778 392465 (quote code GDR/APR20)

Terms & Conditions: After your first 5 issues your rate changes to just £9.99 per quarter by direct debit. UK only offer. Minimum term 1 year. Offer ends 31st March 2020



Home of The Garden Railway

since 1987

Good Times with Great Friends
25 Area Groups, Help, Advice & Open Days!



Join Today!

12 Months of Full Membership Now!

4 Quality Journals and more (worth £20)
Society Calender, free Insurance* plus much more!

www.gscale society.com

IP Engineering (uk) Ltd
 Carousell, Spilsby Rd
 New Leake Lincs PE22 8JT
 Tele : (01205) 270010
 Visit our secure on-line shop at
www.ipengineering.co.uk



New

Talyllvn 16mm Scale
Slate Wagon, 3 & 4 Plank Wagon
And Aberllefenni Quarry Wagon Kits



Talyllvn Slate wagon kit complete with wheels and all detail parts included
 32 mm gauge only £25.00



Talyllvn 3 plank open wagon kit complete with wheels and all detail parts included
 32 mm gauge only £25.00



Talyllvn 4 plank open wagon kit complete with wheels and all detail parts included
 32 mm gauge only £25.00



Aberllefenni Quarry Wagon kit complete with wheels and all detail parts included
 32 mm gauge only £25.00

All Major Credit Cards Accepted By Post, Phone And In Our Secure Online Shop






Putting you in control

www.micronradiocontrol.co.uk
sales@micronradiocontrol.co.uk
 Dept GR, Uplands House
 Castle Howard Road
 Malton, YO17 6NJ

Eliminate worry about dirty track, stalls, shorts, and all the frustrations of track power. Battery power and radio control – the future of model railways
 Visit our website or send a A5 Large Letter SAE with 'GR' written on the back

An on-board battery and R/C receiver frees your locos and trains; no more time wasted cleaning track and pickups. Run your railway without track power – no need to insulate turnouts and no messy wiring.

R/C trains can operate alongside track powered locos, either direct control or DCC.

Receivers and controllers operate on 2.4GHz using the popular Spektrum DSM2/DSMX protocol. Receivers have a short wire aerial, some are available with extended aerials for use in totally enclosed metal bodied locos.

R/C Receivers

The range of R/C receivers covers all scales and gauges; from N to SM32, Gauge 1 and beyond with motor currents from 0.5A to 6A. The smallest receiver, suitable for N and 009, measures 9x9.6mm. A selection is shown here.



Hand-Held Controller

A range of hand-held controllers, from simple, single loco to multi-train units. All are pocket sized and available with forward / reverse on one knob or full-range throttle and separate direction control. See our web site for details. We can build bespoke controllers with knobs, switches, push buttons to match your needs.



Batteries

On-board batteries can be NiMH or LiPo for best size/capacity ratio. LiPo cells can be charged in the model and frequently topped up when the loco is resting. Most locos do not need the full 12V - 4V or 8V from 1 or 2 LiPo cells is usually sufficient. For space restricted installations, a single LiPo cell can be used with a small booster to give 9V or 12V.

Sound

Mtroniks or MyLocoSound sound modules can be used to complement your R/C installation. Receiver outputs control motor sound and trigger bell, whistle, horn...

MyLocoSound now with Industrial Light Diesel sounds using 100% recorded sounds.



Installation

Micron provides a complete R/C model rail installation service using Deltang R/C receivers, MyLocoSound modules and supporting components. We can install in most scales/gauges, from N through Gauge 3.

We discuss an installation specification with the customer to see what combination of products and features will best suit their needs and to estimate the installation cost. A firm quotation will be supplied after we examine the loco.

John Sutton Models

I sell a wide range of new and secondhand models in SM32 and G45

- Orders welcome for UK and Overseas
- Callers welcome by appointment only please

Just arrived in stock
Accucraft Sabrina & Talgarth in 3 colours
IOM Bogie Braked Coach now available
Isle of Man G vans with or without portholes

Wanted: Your Garden Railway locomotives and complete collections. Excellent prices paid. Will pick up or can arrange collection - speak to John

Many new and second hand locos in stock check website for availability

66 Carhorse Lane, Brockhill, Redditch, Worcestershire B97 6SZ
Tel: 01527 67696 - Mob: 0779 8924575
www.johnsuttonbooksandmodels.co.uk
johnsutton3@sky.com

The National Garden Railway Show 2020



Mick Blowfield, Show Director, looks forward to the annual extravaganza.

Plumes of steam on a cold morning; icy fingers fiddling with cold cab controls. No, it isn't a British summer steam-up: it's winter nudging at spring. In this part of the world, that not only means little dragons emerging from hibernation: it also means the National Garden Railway Show will soon be upon us. Saturday 4 April to be precise, at the East of England Arena in Peterborough.

The Show, run by the Association of 16mm Narrow Gauge Modellers, is one of the garden railway world's major events. Last year, the Show hosted the first public running of Roundhouse's stunning Double Fairlie and Accucraft's Dolgoch was on display ahead of its launch a few months later. This year, 2,000 or more visitors can expect to see new models from manufacturers large and small. They will not only be able to see up close the new Davenport, have the chance to win a Talgarth or Sabrina in the prize draw, they will also be able to see what is in the pipeline from the thriving smaller manufacturers, such an important part of the audience's enjoyment.

Variety is one of the main things that attracts people to the Show. The Arena offers space to mingle and chat without constantly feeling you are in someone's way. And this year, there will be over 100 traders and exhibitors to visit. On-line is OK, but there is nothing quite the same as being able to talk with real human beings about the models,

offering tips and exchanging experiences in a busy but friendly environment.

As well as the chance to talk to traders, numerous railway societies can update you on their activities and at the time of writing, the Show organisers are hoping to finalise a special exhibit connected to one of the latest loco engineering adventures. There will also be stands manned by some of the hobby's most skilled modellers.

You don't have to be a modelling wizard or even an experienced modeller to have a good chance in the Model of the Year competition. This year, there is a special Newcomers' Trophy for people who have not entered the competition before plus manufacturer-sponsored prizes for Junior Cup winners and runners up. There are classes for locomotives, rolling-stock, buildings and flights of fancy, including categories for both scratch-built and kit-based entries. Your local bingo hall never offered chances to win like this!

Speaking of winning, entrants to the Prize Draw can win a share of roughly £6000-worth of railway-related prizes in return for buying a £1 ticket. Top prize is a Roundhouse Silver Lady, pimped up with expert lining and a full complement of loco detailing. Over 20 prizes are made possible by generous discounts and gifts from sponsors including five ready-to-run locomotives, expertly painted and constructed buildings, figures and rolling stock, a complete rail set, and vouchers for

accessories, bridges and loco-lining so that you can make your layout that bit better.

The 2020 Landmarks Display focuses on the high quality work of small manufacturers and will have locomotives built by DJB, Finescale, Tolhurst Model Engineering, Wrightscale and many others.

And then there are the layouts – 19 of them in all. The opportunity to see garden-scale railways in action and see the handiwork of other modellers is a big attraction, and this year layouts range from the G1 colossus, Anglia Roads, to the tiny Aberwym which is only three metres long. Most of the layouts feature live steam, although there are examples of battery- and track-powered as well. Rhydypendren, which has long hosted an assortment of interesting locomotives, is making its final appearance after two decades on the exhibition circuit. Other layouts such as Fen End Pit, Kew Bridge East and Tor Halt are making a welcome return after five or more years' absence, and it is safe to say that at least three layouts have never been seen before because they will be built on the day!

The full list of layouts, traders, prizes, competitions and exhibitors can be found on the Show's website – www.nationalgardenrailwayshow.org.uk. Advance tickets are available online at a £2 discount. There will be enough variety to inspire you for another summer of activity in the garden with trains. ■

L.G.R.F

LLANGOLLEN GARDEN RAILWAY FESTIVAL

MAY 30TH 2020

Over 50 traders from the very biggest names, to the very newest names in Garden Railways, 10 exciting layouts, from 16mm modular, dual gauge 16mm/45mm and larger gauges and scales up to a 5 inch ride on railway on site.

Free parking for over 300 cars.

Enjoy a discounted ride on the nearby Llangollen preserved railway

Saturday May 30th 2020 10am - 4:30pm

Admission: £7 | Accompanied Children: Free

Llangollen Pavilion, Abbey Road, Llangollen, Denbighshire, LL20 8SW



For full details visit www.lgrf.co.uk

Building the Tenmille S.R 25 Ton bogie brake van



David Alexander builds
a classic piece of Southern rolling stock.

When it comes to running Gauge 1, I find hauling freight is much more entertaining than watching rakes of coaches. There's so much more variety and detail that can be put into the wagons, the many different loads one can add and a wide range of liveries. I appreciate that "your mileage may vary"

but if we were all the same it would be a very boring world.

I managed to acquire the Tenmille SR Queen Mary brake van kit from the Bring and Buy stall at a G1MRA running session. It still needed to order the parts that don't come as standard, such as the transfers, bogies and wheels.

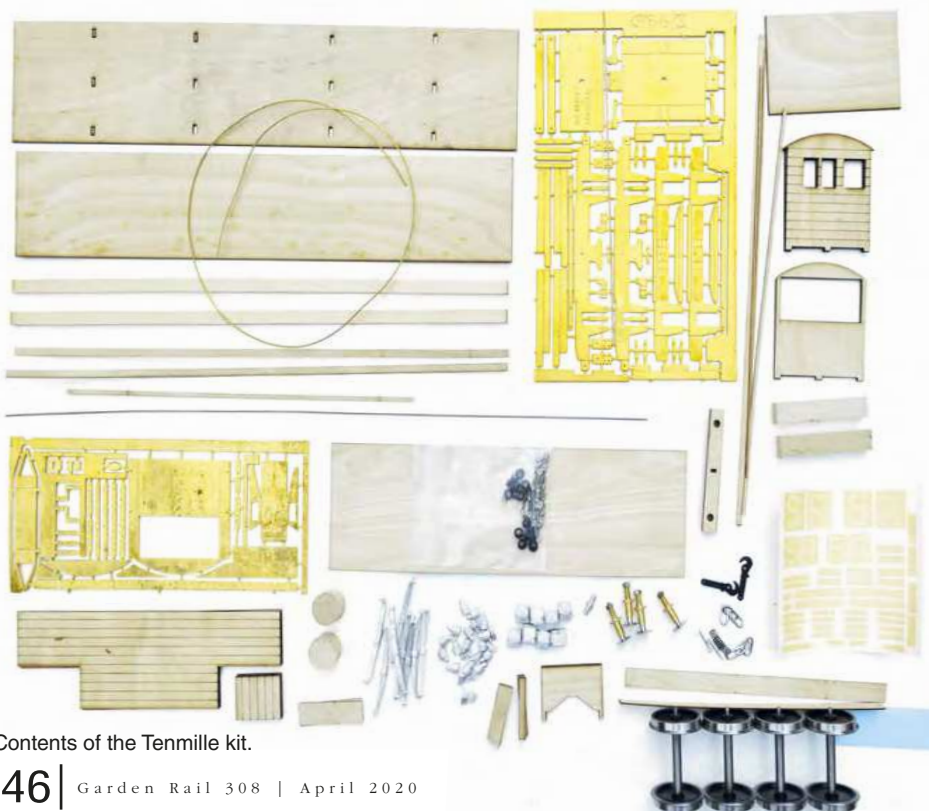
While I waited for those to arrive, I

started by reading the instructions and doing some research. An hour spent this way is never wasted. I look for diagrams, photographs, colour schemes and background history; anything that could provide insight or inspiration for additional details I could add to the build. If I find anything, I add notes to the kit instructions to remind me when to add them and acquire any parts that aren't already in my 'bits box' from previous projects.

I'm not someone who counts rivets and insists that every last detail must be perfect, this is a wagon that I hope will be reliable for 30 years of running. I enjoy adding some details but if it looks right going past from about a metre away and people enjoy watching them, that's fine by me. Does that make me a 'rivet approximator'?

The SR 25 Ton vacuum-braked vans were designed in the 1930s for use on express vacuum brake piped/fitted goods trains, such as fish and milk from the West Country up to London. They had an emergency vacuum brake valve and gauge as well as the traditional mechanical brakes. The Queen Mary nickname, alluding to the ocean liner, came from their enormous size.

The kit comes in a cardboard box with the smaller components in sealed



Contents of the Tenmille kit.

bags. Parts are mostly laser-cut wood with some etched brass and white metal castings. This is a complicated kit, so leave the bits in the bags and the box until needed, it cuts down on the use of bad language while searching the floor.

There are two sets of instructions, one for the wagon and one for the brass bogies. A cast white metal version of the bogie kit is available, easier to build but heavier and doesn't look as good to me. The instructions are normally pretty good in Tenmille kits but this set are not of the best clarity. Plenty of pictures give context and you need to study them carefully.

The wood parts are well finished, have some tabs to help with assembly and the planking is etched where it will show. The brass parts have rivets embossed and etched detail. There is steel and brass wire for adding brake rods, handrails and rain strips to the roof. Some fine fettling will be required so a craft saw, some files and the usual cutting implements are essential. I also use wire wool, emery paper and a fine wire brush to gently clean up the brass before I start. It's much easier to solder, clean and paint if you do.

Work starts with assembling the floor, solebar and subframe parts. These go together with some very minor trimming. You can use cyanoacrylate adhesive but I'm 'old school' and use PVA, which I think is more durable in the long term and doesn't leave me stuck to the kit or myself by mistake. It does mean waiting between stages of the build but I worked on constructing the bogies while the glue dried.

I use brass blocks as weights to ensure good contact between wooden parts and also to align them correctly. The right-angles keep parts in position until the glue sets. I also use magnetic corner clamps for joining ends to sides and keeping it all square.

The SR used bogies originally designed for their coaches and Tenmille supply those from their own coach kits. Subtle differences required for the the brake van are not described in the instructions, look carefully at the pictures to spot that there is a step, supplied in the van kit, that needs to be fitted to each side of the bogies.

I assembled the bogies on a certified flat granite block, to make sure they were true and would run properly once finished. It's much easier than trying to 'tweak' the end result flat afterwards. Please don't ask me how I know this. An old toothbrush and washing up liquid cleans the flux and muck off once finished, ready for undercoat.

This is a fiddly build and not for the faint-hearted, but the only way to learn how to solder brass kits is by having a go. Think about the order of assembly so that the joints requiring most heat are done first. This avoids inadvertently unsoldering small parts later in the build process.

When assembling the cabin, I added extra detail. The brass duckets are soldered up and glued to the cabin sides. I like to cut out the woodwork underneath them so you can look through their windows into the cabin. I also paint them before adding their glazing.

Some pictures of the interior found on-line were a reference to add detailing; a scale chair, stove, and manual brake wheel. I bought a tool chest from Barrett Steam Models and made a stove base and fireback, brake lever and vacuum gauge from brass, wire and wood scraps. It's not perfect but if you look through the windows it looks right.

The toolboxes on each end of the veranda do not have backs as supplied in the kit. Their tops stand proud of the ends and when I offered them up in trial fit I could see a gap that would be visible at the back, so I used an off-cut left over from a previous kit to fill it in.

Before fitting the roof I glue some stirring sticks, kindly donated by my local coffee emporium, to the top edge of the inside walls of the cabin to give a larger area for the glue holding the roof on to adhere to. I file the edges to give a profile similar to that of the curved cabin ends to ensure the roof edge is aligned correctly.

Fitting the chimney, rain strips and

buffer casings is the last job before painting. I leave adding the buffer and couplers until after painting and varnishing to avoid the risk of the varnish affecting their smooth operation.

The painting is straightforward and the instructions are worth following. Rattle can primer works fine, then spray the chassis and bogies black. I used Phoenix paints for the SR colours to finish.

The kit does not contain details of the decals required, but a quick search uncovered details of the serial numbers (56282-56306) and Tare (25-9-0). I use Microsol and Microset to help make them look right on the model. Once finished I mask the Perspex windows and use several coats of matt varnish to protect the decals and paint and as a final touch I added a tail light from MyLocoSound.

For those who would like to know more the vans are described in *An Illustrated History of Southern Wagons - Volume Four*, by Messrs. Bixley, Blackburn, Chorley and King; Published by The Oxford Publishing Company, 2002. ISBN 086093 5647. ■

Garden Rail Resource

Tenmille

The Workshop, Ash Cottage, Offton Road, Ringshall, Stowmarket, Suffolk, IP14 2QA
www.tenmille.com

Barrett Steam Models Ltd

The Old Exchange, 47A Coronation Road, Pelsall, Walsall, WS4 1BG
www.barrettsteammodels.co.uk

Phoenix Precision Paints

Orwell Court, Wickford SS11 8YJ
www.phoenix-paints.co.uk

Please mention **Garden Rail** when contacting suppliers.

From the Works

Trade information on new products for the garden railway modeller...
If you are a trader with any new product, then contact phil.parker@warnersgroup.co.uk
Please mention **Garden Rail** when contacting suppliers

WOODBURY MODELS

Gauge 1 NER hopper wagon

The prototype was introduced by the NER in 1902 as diagram P7 and continued in production with minor changes as LNER diagram 12 until 1930 over that period of time almost 25,000 wagons were produced and 12,628 past to BR ownership. Many even survived in NCB use until the 1980s.

This 10mm:1ft kit is a multimedia kit and comprises of laser cut suitable Baltic birch ply, laser cut steel, etched brass, 3D SLA printed and white metal detailing parts, they are fully sprung using the popular Peter Korzilius underframe suspension units. It is designed to be robust to allow for everyday running yet fully detailed to give a true impression of the original.

Parts are included to enable the kit to covering the majority of variants including the NER's distinctive Central Division end hand brakes.

The kit is complete, except for wheels, transfers, paint and adhesives.

Price: £97.50 Discount will be available on multiple orders.



Woodbury Models

Foxwood, 8 Mears Coppice, Brierley Hill, West Midlands. DY5 2PH
www.woodburymodels.co.uk

STRIKALITE

Piko shunter battery pack replacement

Strikalite has developed a rechargeable

battery pack in conjunction with Garden Railways Ltd to be a replacement for the dry cell battery and holder in the Piko Shunter. The pack is capable of giving about two hours of continuous running time in a light engine situation.

The battery pack needs to be removed for charging and a braid loop is

incorporated in the design to make removing it easier.

Included is an adaptor for the Axtronics charger so you can use an existing charger for this and other locos.

There is no need for modification to the model to make the pack fit.

Chargers are also available with the specified PP3 adaptor.

Strikalite

3 Laurel Drive, Rugeley Road, Burntwood, Staffordshire, WS7 9BL
www.strikalite.co.uk



IP ENGINEERING

16mm scale Talyllyn wagons

Talyllyn 3 plank open wagon. Kit is supplied with wheels (32mm gauge only) and all detail parts.

Price: £25

Talyllyn slate wagon. Kit is supplied with wheels (32mm gauge only) and all detail parts.

Price: £25

Talyllyn 4 plank open wagon. Kit is supplied with wheels (32mm gauge only) and all detail parts.

Price: £25

Aberllefenni quarry wagon. Kit is supplied with wheels (32mm gauge only) and all detail parts.

Price: £25

IP Engineering Ltd

Spilsby Rd, New Leake, Lincolnshire,
PE22 8JT
www.ipengineering.com



Talyllyn 4 plank open wagon



Talyllyn 3 plank open wagon



Aberllefenni quarry wagon



Talyllyn slate wagon

THE AIRBRUSH COMPANY

Flake King Corroded Metal Mini Shaker Kit

Flake King Corroded Metal kits are designed so that you can apply the extremely dense, heavy Vintage Iron and Corroded Copper powders directly to wet paint or clear coat.

Next, the modeller sprays Corrosion Activator directly to the surface and waits – the longer you leave it on the more corroded it will become.

When you're happy with the level of corrosion, just wash the off corroder and leave to dry.

As this is an organic finish, if you do not protect it, it will continue to corrode. A clear protective coating, for example a matt or gloss varnish

would work fine. The makers suggest that working on a couple of test pieces would be a sensible move before attacking precious models.

The kit contains:

FK50 Surface Binder

Vintage Iron pot - with shaker

Corroded Coppo pot - with shaker

Patina Sponge

Corrosion Activator

Price: £24.60

The Airbrush Company Ltd

79 Marlborough Road (East),
Lancing Business Park, Lancing,
West Sussex BN15 8UF
www.airbrushes.com



BOWATER MODELS

15mm scale Isle of Man Steam Railway coaches

The first models in a new range, the initial release covers the first bogie coaches to arrive on the island in the form of the 1876/1881 bogie coaches that later became known as part of the 'Small F's

These items will fit in with any of the many Isle of Man Railway engines that have been released over the years including the various 2-4-0Ts from Accucraft UK. All coaches are scale lengths and will look perfect with the four wheeled and Pairs coaches from Accucraft UK. The initial range consists of the following items:-

BMI-001 Isle of Man Railway 1876 Brown Marshall 'Small F' Guards Coach F.1-F.6

BMI-002 Isle of Man Railway 1881 Ashbury 'Small F' Guards Coach F.7-F.8

BMI-003 Isle of Man Railway 1881 Brown Marshall 'Small F' Non Guards Coach F.9-F.12

These are scale kits coming complete with bogies that can be built in the gauge of your choice (32mm or 45mm) and Accucraft couplings. It is also available without these options.

Every kit comes with one of two bufferbeams, either the prototypical one which will mount the couplings at the correct IoM height or one that enables them to be mounted lower



at 16mm height. The customer can choose at the time of ordering which one they would like.

Price:
£105 to £110 per coach in MDF.
£120 to £125 in Plywood.

16mm scale Sandy River and Rangeley Lakes Railroad Caboose

Due to popular demand, the latest member of the Sandy River and Rangeley Lakes Railroad Range is the smaller caboose design of 556 to 558 (Caboose 557/558 in this case).

Like the coaches in the range, it features the new handrails designed for these cabooses and passenger cars and is smaller than the existing members in the range.

This kit includes bogies in 32mm or 45mm and Accucraft couplings.

Price:
£90 in MDF.
£105 in Plywood.

Bowaters Models
www.bowatersmodels.co.uk



KS LASER DESIGNS

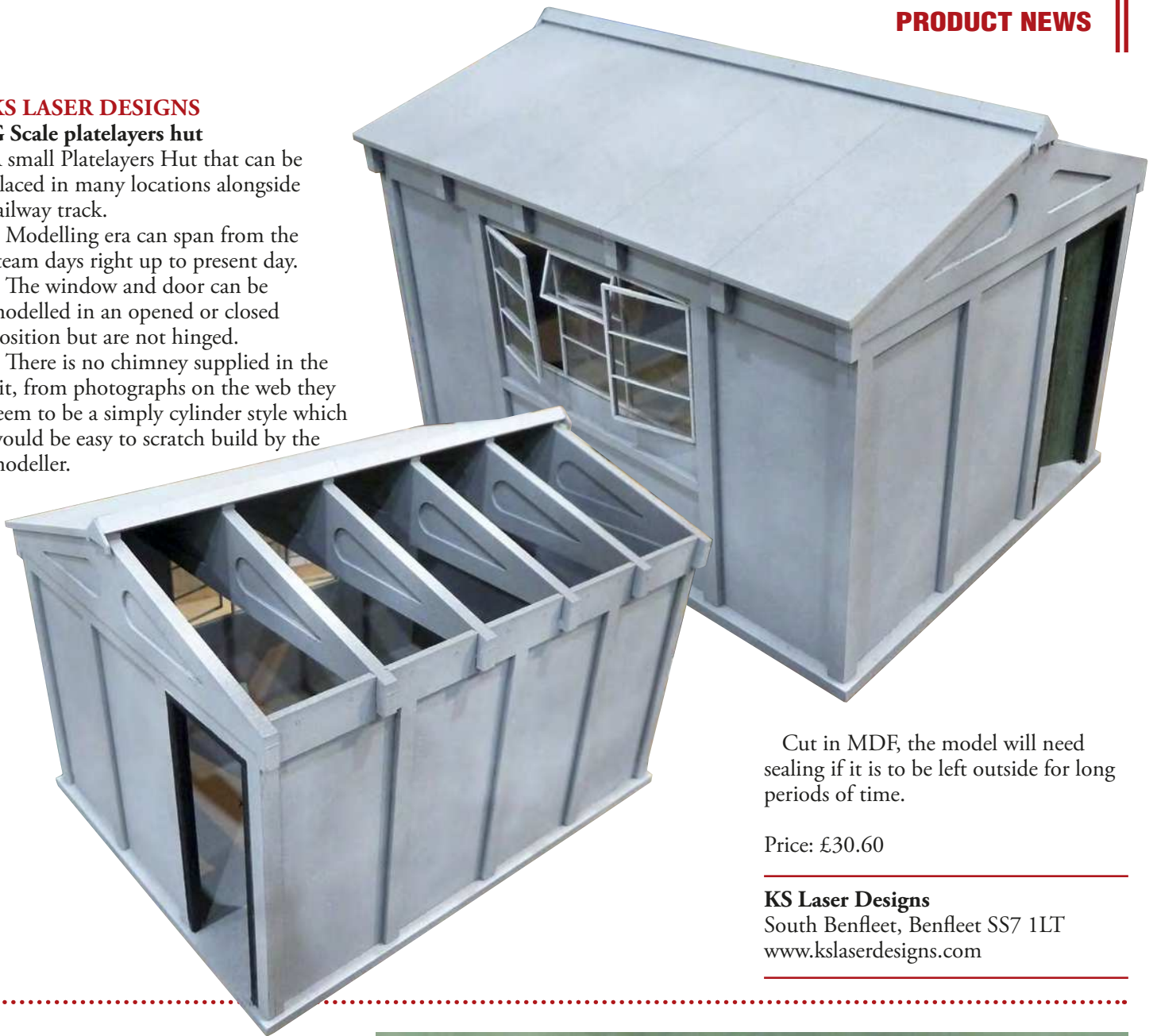
G Scale platelayers hut

A small Platelayers Hut that can be placed in many locations alongside railway track.

Modelling era can span from the steam days right up to present day.

The window and door can be modelled in an opened or closed position but are not hinged.

There is no chimney supplied in the kit, from photographs on the web they seem to be a simply cylinder style which would be easy to scratch build by the modeller.



Cut in MDF, the model will need sealing if it is to be left outside for long periods of time.

Price: £30.60

KS Laser Designs

South Benfleet, Benfleet SS7 1LT
www.kslaserdesigns.com

MOTLEY MINIATURES

16mm scale Loco crew and cricketers

Described as a Darjeeling Himalayan Railway crew, the figures are available as either a driver and fireman, or crew of five, with sanders and coalman.

Strictly a limited edition, this cricket team will look perfect on some freshly cut lawn assuming the weather plays ball.



Price:
Body £5 + each head £1.
All figures are supplied as unpainted resin items. Painted versions are available for an extra £9 per figure.

Motley Miniatures

20 Bradley Rd Warminster Wiltshire
BA12 8BP UK
www.motleyminiatures.co.uk

DIARY DATES

Date: 14-15 March

Event: Midlands Garden Rail Show

Venue: Warwickshire Event Centre, A425, Southam Road, Leamington Spa, CV31 1XN

Times: 10am to 4pm

Admission: Adult £9.00 Senior £8.50 Child (5-14) £4.50 – Discounted tickets are available on-line.

Web: www.midlandsgardenrailshow.co.uk

Layouts: 16mm Association Modular Layout, Ballygornal Junction, Buckinghamshire Garden, Railway Society “Whiteleaf Light Railway”, G Scale Society Publicity Layout, Gauge 1 Vintage Tinsplate Trains Group, Hambleden Valley Railway, Hampton End, Lough Motive Power Depot, Mendip Vale, Roche Junction, Stanley Midland.

Trade: Accucraft UK Ltd, Airframed Glass Display Cases, All Components, Anything Narrow Gauge, Aster Hobbies, Barrett Steam Models, Blackcat Bridges, Bole Laser Craft, Bowande Live Steam UK, Brunel Models, Chalk Garden Rail, Chuffed 2 Bits, Coach & Wagon Works, FineScaleBrass (UK), Garden Railways Specialists, G S Model Supplies, Hafix Industrial Products, IP Engineering, John Sutton Books and Models, Just the Ticket, Loco Boxes, Malcs Models, Mamod Ltd, Model Earth Design, Modeltown, Sandringham Garden Crafts, SMTF Model Shop The Sparesman, Steve Currinn Books, Tony Green Steam Models, Vale of Rheidol Railway.

Additional info: Free parking. Refreshments.

Date: 14 March

Event: Narrow Gauge North

Venue: Pudsey Civic Hall, Leeds, LS28 5TA

Times: 10:30am to 4:30pm

Admission: Adults: £8.00, accompanied children under 16: £1.00

Web: www.narrowgaugenorth.org.uk

Additional Info: Layouts include the 16mm Poppleton Nursery. Hot & Cold refreshments available. Plentiful free parking. Disabled access to all areas except the stage. Proceeds to Sue Ryder Care - Wheatfields, Leeds.

Date: 21 and 22 March

Event: London Festival of Railway Modelling

Venue: Alexandra Palace, London, N22 7AY

Times: Sat 10am to 5pm. Sun 10am to 4.30pm

Admission: Adult £13 Child £6.50 Family (2+3) £39 – Discounted tickets are available on-line.

Organiser: Warners Exhibitions.

Web: www.world-of-railways.co.uk/information/the-london-festival-of-railway-modelling

Additional Info: Layouts include the G scale Whiteleaf Light Railway

SUBMISSION NOTES

Garden Rail welcomes articles submitted via posted disc, e-mail, Dropbox (or other large file sending system on-line). Please ensure that your name, e-mail address, telephone number and postal address for payment on publication are included. Send to phil.parker@warnersgroup.co.uk or to the contact address on the Contents page.

Articles should be submitted in MS Word or other word processing format. Please do not use fancy formatting or embed photos in the piece, these should be sent separately at the highest resolution possible and in JPEG format. Printed photos of a historic nature will be accepted. Captions for all photos should be included as part of the submission. You must own copyright to any material submitted.

Date: 4 April

Event: National Garden railway Show

Venue: Peterborough Arena, East of England Showground, Peterborough PE2 6XE

Times: 10am to 5pm

Admission: £12.50 on the door (under 18's and carers admitted free), however buying in advance (online from 9th December) will save you £2.00 per ticket.

Organiser: The Association of 16mm Narrow Gauge Modellers

Web: www.nationalgardenrailwayshow.org.uk

Additional Info: 19 layouts, in scales including 16mm to the foot, 7/8ths, 7mm narrow gauge, G, G1 and G3 running a mixture of live steam and electric powered stock. 100 trade stands including suppliers you simply don't see anywhere else as well as major manufacturers launching new products, information stands and heritage railways. Model of the Year Competition, Member to Member secondhand sales and lots more.

Date: 10 - 13 April

Event: Easter Eggspress, 16mm running weekend

Address: Bure Valley Railway, Aylsham Station, Norwich Road, Aylsham, Norfolk NR11 6BW

Organiser (BVR): Bure Valley Railway – 01263 733858, also on Facebook

Organiser (16mm): alan.butcher34008@gmail.com - e-mails only please as I cannot be contacted via the BVR

Web: www.bvrw.co.uk

Times: 10.00-17.00 or until last departure from Aylsham if earlier

Prices: Free access to 16mm layout, normal prices for train rides etc.

Layouts: Aylsham Minor will be available for Association members to run on

Additional info: Bring a locomotive to run whilst the family ride the rails.

Date: 18 April

Event: Quarry day

Venue: Woodseaves Garden Plants, Sydnall Lane, Woodseaves, Market Drayton, Shropshire TF9 2AS

Times: 11am to 6pm

Web: www.woodseavesminirail.co.uk

Additional Info: The Woodseaves Lake Light Railway is a 32mm gauge line with over a scale mile of track located within the grounds of a garden nursery and miniature railway. Prototypical running for the theme is preferred (quarries). Parking and other facilities are on site. Refreshments available.

Date: 25 April

Event: GIMRA Spring Show

Venue: Shephed High School, Forest St, Shephed, Loughborough LE12 9DB

Times: 10:30am to 4:30pm

Admission: Adult £10. Under 15 free

Web: www.g1mra.com

Additional Info: Dobson Bridge Gauge 1, 16mm layout and trade stands.

With over 30 years of experience in the manufacture of Kit Built Locomotives, we know the business.



Build and drive your own 5" gauge coal fired 'POLLY Loco'!
British Made with a Proven Track Record

Supplied fully machined, assembly requires hand tools only – no riveting, soldering or other complex processes. Kit includes boiler CE certified and accepted under Australian AMBSC regulations.
Model can be supplied as full kit (unpainted) or a succession of kit modules.



10 other models, tank engines, tender engines, standard gauge/narrow gauge – something for everyone!
Prices from £5716.

Build & cost optionally spread over 12 months.
Enquire for ready to run models. Worldwide export experience.

Buy with confidence from an established British Manufacturer

144 page Catalogue £2.50 UK £8 international posted (or download free!) and enquire for further details or visit our website where you will find other Polly Locos, Kits, drawings and castings for scale models and comprehensive ME Supplies.



Polly Model Engineering Limited
Atlas Mills, Birchwood Avenue,
Long Eaton, Nottingham,
NG10 3ND, United Kingdom

www.pollymodelengineering.co.uk

Tel: +44 115 9736700

email: sales@pollymodelengineering.co.uk

Find us on 

Strikalite

3 Laurel Drive, Rugexley Road,
Burntwood, Staffordshire, WS7 9BL

Custom Battery Packs built to specification

Small Loco G 0/1 Gauge 3



Tel: 01543 683122 • Email: sales@strikalite.co.uk
Web: www.strikalite.co.uk

TONY Green STEAM MODELS

19 Station Road, Thorpe on the Hill, Lincoln, LN6 9BS
Telephone 01522 681989

NEW & RESTORED MODELS

Stationary engines, Mamod, Wilesco, SVS marine engines, MSS Locos, LGB Garden Rail, new & secondhand Mamod, Wilesco, Hornby Rocket spares available. I have large stocks of LGB, please enquire on new and secondhand. Obsolete spares can be made to order.

Send 4 x 1st class stamps for price list

SEE OUR NEW IMPROVED WEBSITE
www.tonygreensteammodels.co.uk
Email: tgsm1@btinternet.com



GERMAN DR BR 38

Gauge One Live-Steam, Alcohol fired ...

MBV SCHUG

ASTER HOBBY

We have it in stock, Aster factory build!



We speak english!

MBV SCHUG Neustrasse 18 D-54340 Detzem / Germany
Phone +49 6507 802326 Fax +49 6507-802327 www.accucraft.de

CAMBRIAN 16mm Narrow Gauge

Cambrian Models is now Cambrian Model Rail Limited. There is a new website with fully integrated online shop. Postage from £1.50.

Loco and rolling stock parts: Rivets, nuts/bolts, handwheels, headlights, coach doorhandles and more...

Bogies, axleguards, brake gear: Five types of bogie, loco, coach & wagon axleguards; and brake gear.

Wheels: Loco and rolling stock wheels.

Signal parts: Signal parts, signal ladder and brackets.

See the website for details or send C5 SAE for catalogue

Over 100 4mm Wagon Kits spanning many eras are also available

www.cambrianmodelrail.co.uk cmr@cambrianmodelrail.co.uk
01322 515672 2pm to 4pm PO Box 85, Greenhithe, Kent, DA10 9DN

BARRETT STEAM MODELS LTD.

UK MANUFACTURES OF LIVE STEAM LOCOMOTIVE KITS IN GAUGE 1

CELEBRATING 40 YEARS OF BARRETT MODELS 1980-2020

Scale, 10mm : 1ft
Track 45mm



GW 2-8-2 72xx spirit fired kit.
Detail casting & spare parts available for the scratch builder.

www.barrettsteammodels.co.uk Tel no. 01922 685889
Works:-47a Coronation Rd, Pelsall, Walsall, WS4 1BG

GARDENRAILWAYS.CO.UK

GARDEN RAILWAYS LTD.

01279 831641

UK agent for REGNER Live Steam, sales, parts service and repair
Supplier of Quality Model Railway equipment for outdoor use and modelling tools.

W: www.gardenrailways.co.uk E: graham@gardenrailways.co.uk
T: 01279 831641 M: 07836293337

MAXITRAK.COM

The best of model rail and road

3/4" SENTINEL DG6



Ready to Run £1450
Radio Controlled Live Steam
Three liveries available

10/11 Larkstore Park, Lodge Road, Staplehurst, Kent, TN12 0QY Tel: 01580 893030 Email: info@maxitrak.com

BOLE LASER CRAFT

Web: www.bolelascraft.com Phone: 07900 995164

SM32/45 Locomotive Kits

A range of laser cut and 3D printed sixteen millimetre scale locomotive kits. All our kits feature pre-assembled chassis so you can be confident that your model will run well.

Greenbat BEV (32mm gauge) £90
Ruston & Hornsby 20DL (32mm gauge) £95
Ruston 44HP (32 & 45mm gauge) £120
Talyllin Midlander (32 & 45mm gauge) £130

We can also supply these locomotives "Ready To Run". Please telephone or see website for details



Greenbat BEV

DREWEATTS THE TRANSPORT SALE | 7 APRIL 2020 | 12PM

EST. 1759

TO INCLUDE A GAUGE 1 COLLECTION OF LOCOMOTIVES AND ROLLING STOCK CONSIGNED BY A PRIVATE HAMPSHIRE VENDOR



A fine Gauge 1 London Midland and Scottish 2P 4-4-0 tender locomotive
Est. £600-800 (+ fees)

AUCTION LOCATION
Dreweatts
Donnington Priory
Newbury
Berkshire RG14 2JE

ENQUIRIES
+44 (0) 1635 553 553
transport@dreweatts.com

Catalogue and free online bidding at: dreweatts.com



01904 611761
01723 377020



www.pshobbiesandmodels.co.uk

THE SHOP WITH THE STOCK IN STOCK!

North Yorkshire's Largest Premier Dealer for LGB & Massoth
FREE FITTING & Programming on all LGB and Massoth Decoders
Massive stock of parts and spares available for LGB
DCC Conversions a Speciality. Quick Service. Ring for details

32 Castle Road, Scarborough YO11 1XE
also at: 4 Walmgate, York YO1 9TJ

MyLocoSound £59

Tram Soundcard now available

For battery radio control or analogue track power **or DCC**. Easy screwdriver installation. £10 remote control enables adjustments without dismantling the loco. Also great for 5" and 7 1/4" ride on locomotives.

Universal steam ... synchronised load sensitive chuff, sixteen selectable and adjustable whistles, bell, safety valve, live steam injector, "All aboard", guard's whistle, brake squeal and Westinghouse brake pump.

Universal heavy diesel ... Choice of English Electric, Modern EMD, Classic GM, Alco, Sulzer and Railcar engines, six variable horns, bell, brake release, "All aboard", guard's whistle, brake squeal, switchable turbocharger and start up sequence. Also **Light Diesel soundcard** with Klaxon and modern horns.

Universal electric ... adjustable, load sensitive motors, variable horn styles, bell, guard's whistle, brake compressor, brake release and door slams.



www.mylocosound.com

Distributed by Fosworks of Blackburn
01254 814675 E-mail sales@fosworks.co.uk

northpiltonworks.com

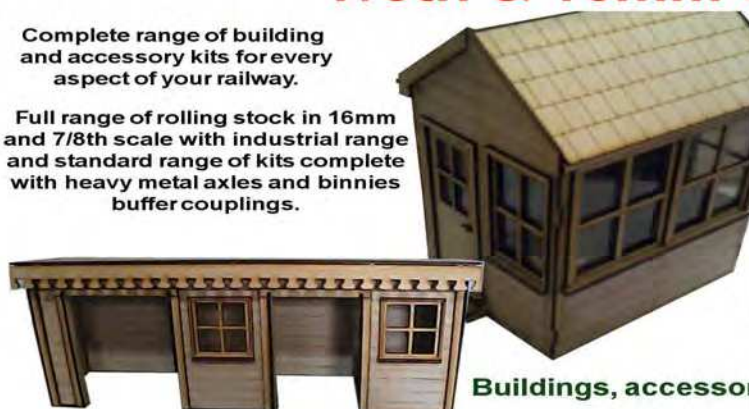
Call: 02030 062564

7/8th & 16mm Scale

North Pilton Works
16mm Scale Garden Railways .com

Complete range of building and accessory kits for every aspect of your railway.

Full range of rolling stock in 16mm and 7/8th scale with industrial range and standard range of kits complete with heavy metal axles and binnies buffer couplings.



New range of 7/8th scale industrial wagons now launched

Buildings, accessories, signals, rolling stock and locomotive kits



SELL YOUR SECONDHAND LOCOS & ROLLING STOCK FOR CASH

• Trade in with Hatton's for immediate payment on the day that we receive your goods!*

Get cash for your items in just four easy steps...



“An excellent service everytime without fault. I honestly cannot think of anything which could be improved.”

Mr A Manning, Ipswich

“Excellent service, fair offer. I will not hesitate to use their service again and recommend it. Thank you.”

Mr P Shaddock, Portsmouth

“Very simple to trade-in. Beforehand I had thoughts of problems with couriers and the like, but all very easy.”

Mr D Spottiswoode, Kilmarnock

ALL brands purchased including:



Sell yours today at www.hattons.co.uk/preowned

Call us on 0151 305 1755 or email preowned@hattons.co.uk

17 Montague Road, Widnes WA8 8FZ

Phone opening times: Mon to Sun 9am-5pm.

*Same day payments apply for collections received Monday to Friday before 2pm. Any collections received after 2pm will be paid on the next working day. Please note: In the unlikely event that we revise our offer price for your collection, you will be paid after responding to our offer.

For full Terms and Conditions, visit hattons.co.uk/preownedterms



LNER Class A3 & A4 4-6-2s



Features

- 5-pole motor
- Digital ready - ESU L socket
- All-wheel pick-up
- Screw-link couplings
- Full Cab detail
- Compensated centre axle
- Un-numbered versions available

LNER Class A3 4-6-2

Unstreamlined corridor tender

- H7-A3-001 2750 'Papyrus' in LNER Grass green
 H7-A3-002 4472 'Flying Scotsman' in LNER Grass green
 H7-A3-007 60103 'Flying Scotsman' in BR green with late crest **BACK IN STOCK JUNE 2020**

Unstreamlined non-corridor tender

- H7-A3-003 2745 'Captain Cuttle' in LNER black
 H7-A3-004 60072 'Sunstar' in BR Express blue
 H7-A3-005 60035 'Windsor Lad' in BR green with early crest
 H7-A3-006 60077 'The White Knight' in BR green with late crest



IN STOCK NOW
Digital Ready: £750

LNER Class A4 4-6-2

Unstreamlined corridor tender

- H7-A4-004 4489 'Dominion of Canada' in LNER garter blue
 H7-A4-006 60007 'Sir Nigel Gresley' in BR express blue
 H7-A4-008 60009 'Union of South Africa' in BR green with late crest

Streamlined non-corridor tender

- H7-A4-002 4468 'Mallard' in LNER garter blue
 H7-A4-003 4468 'Mallard' in LNER garter blue
 H7-A4-009 60008 'Dwight D Eisenhower' in BR green with late crest

Streamlined corridor tender

- H7-A4-001 2509 'Silverlink' in LNER silver
 H7-A4-005 4464 'Bittern' in LNER garter blue
 H7-A4-007 60012 'Commonwealth of Australia' in BR green with early crest



Due in stock: June 2020
Digital Ready: £750

Order yours online at:
www.hattons.co.uk/recordbreakers



Letters are welcomed on any aspect of large scale railway modelling. Please e-mail the Editor: phil.parker@warnersgroup.co.uk or post to The Editor, **Garden Rail Magazine**, Warners Group Publications, West Street, Bourne, Lincolnshire, PE10 9PH

BATTERY LIGHTING FOR COACHES

Following on from my equipping the Bachmann tram with Christmas lights as seen last month, I wanted to fit battery lights in a couple of other coaches.

I went back to the web and ordered some "20 white light" sets which were as before operated from a small 2 coin style battery case. 20 lights was far too much for even a Bachmann USA combine and

so I took the plunge and discovered that this light string can in fact be cut to size.

The lights are unlike old style Christmas lights whereby they all had to work and the wires definitely made a circuit. Here the circuit goes as far as each light soldered between the wires and the wires can therefore be cut to length after the required number of lights.

I started with 12 and ended up with 10 lights fixed along the clerestory roof

line (using Plastikard cut to size) at each side. The battery case is in the luggage section of the combine fixed to the side wall with some Plastruct angle. I can open the sliding door and switch the lights on. These then stay on whilst the train is moving or stationary just like the real thing. Another marvellous advance in science!

Stephen Wise



PARRY PEOPLE MOVER

My PPM 50 is my only scratchbuilt item of rolling stock. It has survived many years of crashes and attention from grandchildren and is therefore a little "workworn". It had spent some years in London Midland colours but I decided it was time to move on the West Midlands Trains livery.

Although this vehicle is quite old and battered I thought it would be relatively easy to give it a quick repaint. I removed the doors and then spent half a day masking all the glazing. After a rub down and a few airbrushings of paint I removed the carefully applied masking and found some very clouded over windows which was rather disappointing. When I looked closely the misting was on the inside. With hindsight it was of course obvious that I should have covered the door space as the paint had got inside through the door space and ruined the glazing. It's amazing how we can all make schoolboy errors.

All the windows had to be removed and replaced with plastic from Peco point packaging, which on turn damaged some of the bodywork. After a little cursing my PPM 50 is back in full working order now and sort of looks OK if you stay more than 10ft away from it. I just hope West Midlands Trains don't lose their franchise....

Forgot to mention that I built the

PPM 50 long before the Stourbridge shuttle. The Stourbridge shuttle is run by class 139s which are PPM 60s. Basically the same machine but about a metre longer, one extra side window and capacity for 60 passengers (that's going to be a crush) instead of 50. You can see the new livery if you Google Class 139.

Chris Morris





PEOPLE

In **Garden Rail** Issue 305 for January 2020 Peter Bakke said of our railways' travelling or lineside population that he is not personally fond of caricatures. I had been looking for a source of realistic scale figures at 1:19 so I too have tried Hardy's Hobbies with whom he has had good service and results.

Their website shows a wide range of figures in realistic poses, available in a range of scales. I have bought four as a trial. The 3D printed figures are hollow with small holes in the underside of their shoes.

To keep them upright

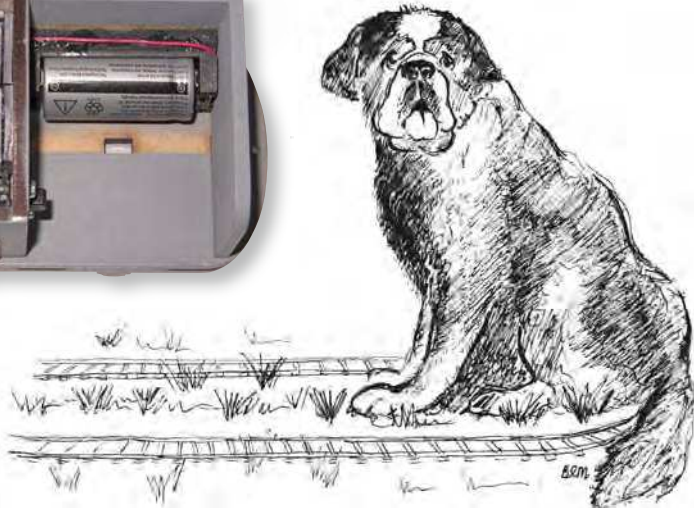
whilst on duty on the railway, without the need for visible support in the form of a baseplate, I have fitted brass tubes of 2.3mm external diameter in one of these holes secured by epoxy resin and flush with the underside of the shoe. Each tube has to have a paper cap glued at the upper end to stop the epoxy running back into the tube, a touch of clear glue will do for this. Possible tube length varies by the shapeliness of the figure's leg, but 4mm is the minimum I have found.

Brass pins fit in these tubes. The pins locate in other brass tubes glued flush into holes in the platform or road surface. To

avoid having the pins protruding they are removable so that the figures can be propped up anywhere and the surface they stand on does not have permanent raised pins. The figures can be moved around both by facing in varying directions on their pins and by providing a selection of tubes along platforms and roads.

All figures are spray painted with white primer (from Halfords) whilst standing on temporary longer pins. They can also be parked on these supports between applications of coloured paints.

Julian James



Barbara Martin

MICRO RC

Reading your editorial on R/C, I think there's room for both shelf and self build systems.

Myself, I'm a great believer in the Deltang system, so simple & small. I have attached a photo of a Phil Sharples loco which people said could not be radio controlled. I would like to see someone build a system to fit this Loco.

Dave Pollard

The rear overhang might be a problem on tight radius lines

Wood Valley Works



Ffestiniog Railway Quarrymen's Coaches

Types 1a, 1b, 2a & 2b
SM32 Gauge Only

True to scale with the correct underframes

01270 876882 or 07967 560988
sales@woodvalleyworks.co.uk
www.woodvalleyworks.co.uk

Malc's Models

Stockist of:
ACCUCRAFT • ARISTOCRAFT
BACHMANN • SPECTRUM • LGB
LILLIPUT • PIKO • SCENECRAFT



Open Mon-Sat 10am-5pm
Closed Weds & Sun

**2-4 Pelham Street,
Ilkeston, DE7 8AR**
Tel: 07786 896807
www.malcsmodels.co.uk
malcolmgrubey@btinternet.com

AirFramed

Bespoke Glass Display Cases
www.airframed.co.uk



OO gauge, O gauge, Gauge 1 and Gauge 3 cases with mirrored or clear back wall.

Prices start from
£35 plus P&P

Please call Nigel Julian on
07971 741478 or 01332 781795
Email: nigel@airframed.co.uk

BRITISH RAILWAY MODELLING

BRM

Sign up to our monthly e-newsletter

- EXCLUSIVE ARTICLES
- COMPETITIONS & OFFERS

www.brm.ag/woreshotsignup

Harecroft

True 16mm Scale Models and Detailing Parts
www.harecroft.co.uk



DJB Model Engineering Ltd

Visit our web site for full details of all our products including castings, steam fittings, whistles, Loco kits and RTR models

 [Find us on Facebook](#)

**"Eleanor House" Sibthorpe Hill
Tuxford Newark Notts NG22 0PJ**
Phone: 01777 871047
E-mail:
pbailey262@btinternet.com
www.djbengineering.co.uk

FROME MODEL CENTRE
Enthusiasm and quality the way it should be

Here at Frome Model Centre we offer our customers one of the largest, most diverse ranges of railway modelling products under one roof with a helpful and friendly service provided by our experienced team!

Come and visit us here at **Frome Model Centre**, with product ranges across model railway, plastic kits, toys, wargaming, dollhouse accessories, crafts, tools, paints, and much more, we are sure to have something for everyone, of all ages and interests!

Model Railway Service and Repair
Specialists - with over 30+ years experience

Buyers and Sellers of Second Hand Railway - with one the largest ranges under one roof!



Service & Repair - Second Hand - Technical Advice

Tel: 01373 465295 E: sales@frome-model-centre.com Free Parking!
www.fromemodelcentre.com 1-2 Catherine Street, Frome, Somerset BA11 1DA
Opening Hours: Tue-Sat: 10am-5pm 

B&B Trawsfynydd, Snowdonia

Our Garden Railway re-opens at Easter. Come and visit the local steam trains and have a "railway weekend" with us!



Tel: 01766 540397 • www.oldmillfarmhouse.co.uk

ADVERTISERS' INDEX	
ACCUCRAFT UK LTD	63
AIRFRAMED GLASS DISPLAY CASES.....	60
ANYTHING NARROW GAUGE.....	13
AUTOCOLOURS	41
BARRETT STEAM MODELS LTD	54
BOLE LASER CRAFT	54
CAMBRIAN MODEL RAIL LTD	54
CARNFORTH MODELS	21
DIVERSE NETWORK LTD	43
DJB MODEL ENGINEERING LTD	60
DREAM STEAM LTD	2
DREWEATTS 1759 LTD.....	55
ELLIS CLARK TRAINS	14
FROME MODEL CENTRE.....	60
GARDEN RAILWAY SPECIALISTS	64
GARDEN RAILWAYS LTD	54
GAUGE 1 MODEL RAILWAY ASSOCIATION.....	21
GAUGEMASTER COM	27
GREAT CENTRAL RAILWAY PLC.....	12
HARECROFT.....	60
HATTON'S MODEL RAILWAYS.....	56 & 57
I P ENGINEERING.....	43
JACKSON'S MINIATURES.....	29
JOHN SUTTON MODELS.....	43
KENT GARDEN RAILWAYS.....	15
KM1 MODELLBAU	5
LISIACRAFT.....	41
LLANGOLEN GARDEN RAIL FESTIVAL	45
MALC'S MODELS.....	60
MAXITRAK LTD.....	54
MBV SCHUG.....	54
MIKE'S MODELS	21
MODEL TOWN	41
MY LOCO SOUND.....	55
NORTH PILTON WORKS	55
OLD MILL FARMHOUSE	60
P & S HOBBIES & MODELS.....	55
POLLY MODEL ENGINEERING LTD	53
RAILS OF SHEFFIELD	61
RESURGAM ROLLING STOCK.....	42
ROUNDHOUSE ENGINEERING CO. LTD	13
SMALLBROOK STUDIO	21
STRIKALITE.....	54
TEE PUBLISHING LTD	29
THE ASSOCIATION OF 16MM NARROW GAUGE MODELLERS.....	11
THE G SCALE SOCIETY.....	43
TONY GREEN STEAM MODELS LTD	54
TRACKSHACK	41
VECTIS.....	28
WILSON LOCOMOTIVES.....	29
WOOD VALLEY WORKS.....	60



RAILS OF SHEFFIELD

railsofsheffield.com

Corporate members of



WANTED

CASH OR EXCHANGE

WE WANT **ANYTHING** MODEL RAILWAY RELATED,
ANY AGE, ANY GAUGE, FROM A SINGLE ITEM TO A
LIFETIME COLLECTION. DISTANCE NO OBJECT.
PLEASE TELEPHONE, OR EMAIL YOUR LISTS TO
SECONDHAND@RAILSOF SHEFFIELD.COM

BUY · SELL · EXCHANGE · ANY GAUGE · ANY AGE

RAILS OF SHEFFIELD VALUE YOUR SECOND HAND COLLECTION VERY HIGHLY

LOCOS - COACHES - WAGONS - TRACK-WORK - CONTROLLERS - ACCESSORIES
DIE-CAST - LORRIES - BUSES - PLANES - SOLDIERS - RAILWAYANA - AND MORE

FULL COLLECTIONS PURCHASED / UK & WORLDWIDE COLLECTION AVAILABLE

**TOP
GUARANTEED
PRICES
PAID**

*We urgently require collections of any size,
featuring products from the following manufacturers:*

**FAMILY
BUSINESS
FRIENDLY
SERVICE**



WE ALSO BUY RAILWAYANA

SIGNAGE AND TOTEMS

AND MORE...

Telephone our Second Hand team on: (0114) 255 1436 or email: secondhand@railsofsheffield.com

21-29 Chesterfield Road - Sheffield - South Yorkshire - S8 0RL - UK - Tel: (0114) 255 1436 - Fax: (0114) 255 5982

Email: info@railsofsheffield.com

Web: railsofsheffield.com

[railsofsheffield](https://www.youtube.com/railsofsheffield)

[railsofsheffield](https://www.facebook.com/railsofsheffield)

[railssheffield](https://www.instagram.com/railssheffield)

[railsofsheffield](https://www.pinterest.com/railsofsheffield)

The Jurby Light Railway & Navigation Co.

Andrew Storey has sent us some photos of his line.

It all started with a restored Mamod SL1 locomotive, which burnt the living room carpet and left a circle of oil behind. Both my train and I were evicted, dispatched to the garden, my wife allowing me to use a corner of the plot. All I had to do was strike a balance of locomotives, rolling stock, infrastructure and budget!

The line steadily grew over three years with a fleet of live steam and battery powered models running on dead Peco SM32 rails. I decided to try to give my line the industrial feel and look of a narrow gauge working mine

and quarry, so in the sidings, I've used second hand O gauge track.

Trucks are built with whatever I can get my hands on. My margarine tub

rubble skips are now infamous! They are left outside all year round. Nothing weathers trucks better than real weather and the tattier they look, the better.

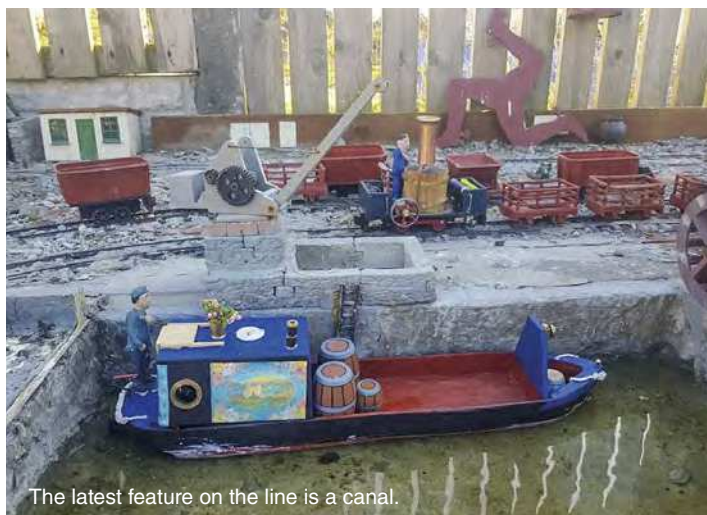
Although small by some standards, on a Sunday BBQ with friends, family and a cold beer, I can sit and watch trains trundle round with out straining my neck or chasing runaways.

The hobby suits us. I get to run and build engineering landscapes and my wife Cheryl designs and plants the garden. Her involvement seems to increase the budget, so my tip is to get your wife involved with your line. The canal was Cheryl's idea and the low level is under construction again we sort of have an idea no plan just adjust as we go along.

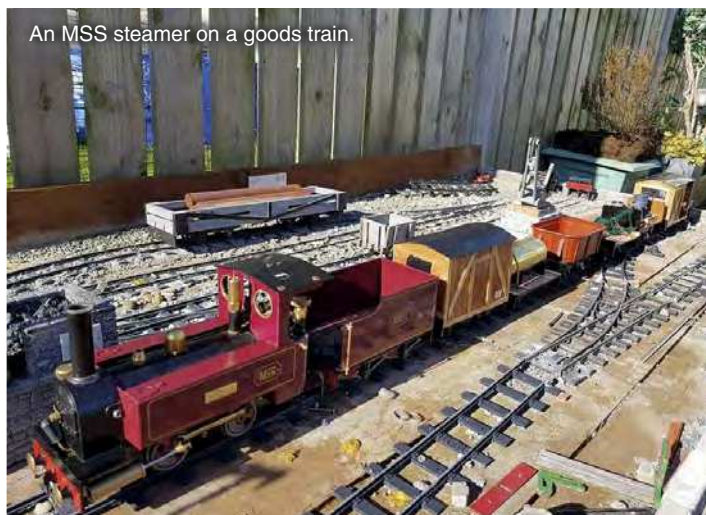
The garden railway is never finished. ■



Battery electric power crossing the bridge.



The latest feature on the line is a canal.



An MSS steamer on a goods train.

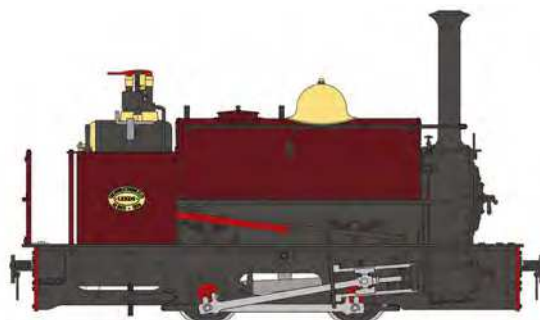
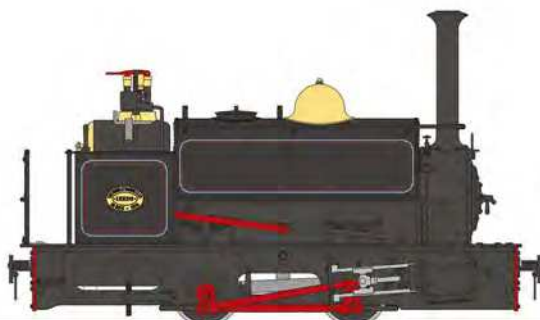
ACCUCRAFT UK LTD

LIVE STEAM & ELECTRIC LOCOS AND ROLLING STOCK FOR GARDEN RAILWAYS

NEW FOR 2020! 1:19 SCALE QUARRY HUNSLET

As soon as we had a chance to run *Dolgoch* last March we realised that the design brief for this small locomotive had produced an almost perfect balance of performance and duration and, having instinctively avoided some of the smaller designs, the possibilities for new engines were now numerous. With Tallylyn No.1 designed and signed off we immediately re-drew our 7/8ths" Quarry Hunslet as a 16mm model, a design whose characteristics will be much the same as the TR models and should prove to be a real crowd-pleaser.

The more generous proportions of the 'Large' type Quarry Hunslets will prove beneficial to the locomotive's run-time although to avoid compromising the look of the model we will only be offering it in 32mm gauge. The model is gas-fired and fitted with a water top up valve, water check valve, miniature pressure gauge; constructed of stainless steel and etched brass with a copper boiler, the model will, as usual, be covered by our two-year warranty. The anticipated UK RRP is £1595.00 (subject to the usual provisos), available Q3 2020.



I.O.M. 'E' Van



I.O.M. 4 Wheel Coaches



L&B Howard Van



L&E Bogie Van



1:13.7 KS Wren 0-4-0ST



1:19 'Dolgoch' 0-4-0T



I.O.M. 'Mona' 2-4-0T



1:32 'Victory' 0-6-0T



1:32 BR Mk1 Coaches



1:32 Oil Tanker



1:32 Mineral Wagon



1:32 7 Plank Wagon



For details of our complete range of models visit our website – www.accucraft.uk.com
ACCUCRAFT UK LTD, UNIT 4, LONG MEADOW INDUSTRIAL ESTATE,
PONTRILAS, HEREFORD, HEREFORDSHIRE, HR2 0UA
TEL: 01981 241380





Garden Railway Specialists

**Available now in
Commission Sales**

We have two GRS kitbuilt K1 Garratts, 45mm,
with Battery/RC fitted in wagons @ **£1695.00 each**
Scratchbuilt Brass Darjeeling C Class, 45mm, Battery/RC **£1995.00**
Scratchbuilt Brass Indian Garratt, 45mm, Battery/RC **£1695.00**



Live Steam Locomotives in stock

New GRS 'K1 Garratt' gas fired, 45/32mm in lined black, lined Grey, one only in plain satin black - £3895.00 Man. £4195.00 R/C GRS 'GVT' 0-4-0T gas fired, 45mm in black or Green - £1350.00 Man. £1600.00 R/C Accucraft 'Talgarth' 0-4-0T, 32 or 45mm, Black, - £1050.00 Man. £1350.00 R/C Roundhouse 'Darjeeling Garratt' 0-4-0 + 0-4-0, R/C, 32/45mm, Darjeeling Blue - £3900.00 Roundhouse 'Beddgelert' 0-6-4T, R/C, 32mm, Maroon - £2750.00 Roundhouse 'Silver Lady' 0-6-0T, R/C, 32/45mm, Insulated wheels, Victorian Maroon - £1970.00 Mamod 'Stirling' 0-4-0T, Manual, 32 or 45mm, Red - £680.00
Second Hand GRS/Roundhouse 'Elsa' 0-6-0, Whistle and new 2.4Ghz R/C fitted - £2499.00 GRS/Roundhouse 'Elsa' 0-6-0, new 2.4Ghz R/C, 45mm - £1799.00 GRS/Roundhouse 'Gunga Din' 2-6-2, 2.4Ghz R/C, 45mm, Dark Blue - £2499.00 GRS/Roundhouse 'Gunga Din' 2-6-2, R/C, 45mm, Black - £2499.00 Roundhouse 'Russell' 2-6-2T, 2.4Ghz R/C, 45mm, Maroon, Mint condition - £1595.00 Roundhouse 'Katie' 0-4-0 with tender and Snowplough, manual, 45mm, Blue - £1395.00 Roundhouse 'Bangalore Belle' 0-6-2, R/C, 45mm, Black - £2199.00 Accucraft '2 cylinder Shay', Mint condition, 45mm, Manual, Black £2195.00 Accucraft '3 cylinder Shay', Mint condition, 45mm, Manual, Black £2499.00 Hornby 'Stephensons Rocket' with Coach and extra track - £499.00 Kingscale Gauge 3 'Britannia' Gas fired, mint condition, and includes Carrying Case - £4999.00



New items from LGB for 2020

Order now to avoid disappointment!



'Alice' Class Live Steam Quarry Hunslet

1/19th Scale, 32mm or 45mm, Full Stephenson's Valve Gear, Poker burner, Water & Pressure gauges, 20 minute running time.

Estimated prices are open cab Locos at £1499.00
with the cabbed versions at £1699.00.



Product Code	Cabless	Cabbed	Livery	Lining Style
AW001	Yes		Black	Penrhyn
AW002	Yes		Red	Dinorwic
AW003		Yes	Green	White/Red
AW004		Yes	Blue	Black/White
AW005		Yes	Red	Black/Yellow
AW006		Yes	Black	
AW007		Yes	Black	Penrhyn
AW008	Yes		Black	
AW009	Yes		Red	

Garden Railway Specialists Ltd

Station Studio, 6 Summerleys Road, Princes Risborough, Bucks, HP27 9DT

E-mail: sales@grsuk.com Website: www.grsuk.com Tel: 01844 - 345158

Monday - Friday 09:00 - 17:30hrs Saturday 10:00 - 16:00hrs