

THE MIKADO MESSENGER

No. 4 June 2014

FRAMES CUT,
WHEELS ORDERED!



2007 PRINCE OF WALES
Building Britain's Most Powerful Steam Locomotive

Welcome

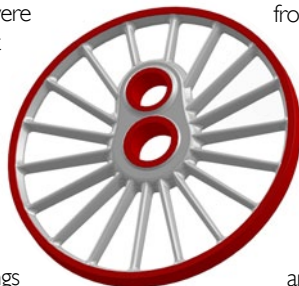


... to edition No. 4 of *The Mikado Messenger*. The *Messenger* aims to provide a monthly bulletin of news about the construction of No. 2007. Incredible progress has been made with the profiling and machining of the frames, the ordering of the driving wheels and we continue to be very pleased with the level support that the project to

build new Gresley class P2 No. 2007 *Prince of Wales* is receiving. Having set an initial target of raising £100,000 seed funding through The Founders Club by the time the frames were laid, well over 300 people are now on-board after just eight months. Due to the Trust's charitable status this could be worth £400,000 to the project. The Founders Club will close for new applications in July following the dedication of the frames.

Driving wheels ordered!

William Cook Cast Products Ltd, whose plants specialise in the design and manufacture of steel castings for all industrial purposes, will make the pattern equipment, cast and machine *Prince of Wales'* eight 6ft 2in diameter driving wheels on very advantageous terms. WCCP is the principal sponsor of No. 60163 *Tornado*. The company provided all of the steel castings



for *Tornado* and leases her tender to the Trust. In return, The A1 Steam Locomotive Trust will continue to provide William Cook Cast Products with appropriate publicity and access as accords a major sponsor of No. 2007 *Prince of Wales*. The commercial price for the eight driving wheels is in excess of £100,000.

The regular donation – or covenant scheme – continues to grow. Picking up on the same theme which worked so successfully for *Tornado*, the new P2 will be substantially funded by a lot of people giving a little on a regular basis... a P2 for the price of a pint of beer a week. The price of a pint in the North East is now £3.10 (up from £1.25 in 1990 when the project to build *Tornado* was launched) and so we are asking supporters to kindly donate a minimum of £10pm by standing order. Gift Aid by UK taxpayers makes every £10 worth £12.50 and we have set ourselves the target of signing up 2,000 £10 equivalents in order to raise £2m towards the estimated £5m cost of No. 2007. We have now signed up 430 covenantors (many at more than £10 per month) and continue to receive dozens more requests for information. With Gift Aid this could be worth over £450,000 to the project over its seven year construction phase.

graham.langer@p2steam.com Editor of *The Mikado Messenger*

NEWS BRIEFS

● **FRAMES** - The frame plates were profiled at the Tata steel plant at Scunthorpe on Wednesday 21st May with a ceremony in which Tim and Ben Godfrey, grandsons of Sir Nigel Gresley, pressed the button to start the CNC controlled oxy/propane profiling machine. Since then the profiled plates have been moved to Boro' Foundry at Stourbridge in the West Midlands. Boro' have started work on the outer rear Cartazzi frame plates and the main frame plate doublers as these require bending before assembly to the main frames. The bending work is scheduled to be carried out at Steel Benders UK at Middlesbrough using templates which have been laser profiled directly from the 3D Solidworks drawing of the frames.

Volunteers at DLW have continued cleaning existing A1 wooden patterns required for No. 2007's frames and

Andy Hardy



Ben and Tim Godfrey start the process of cutting No. 2007's frames at Tata Steel, Scunthorpe

wheelsets. William Cook Cast Products Ltd (WCCP) have quoted for all 25 of the locomotive frame stretcher and hornblock castings – 16 of which are from polystyrene patterns. Erection of the frames is due to start in DLW in July. The sixteen expanded polystyrene

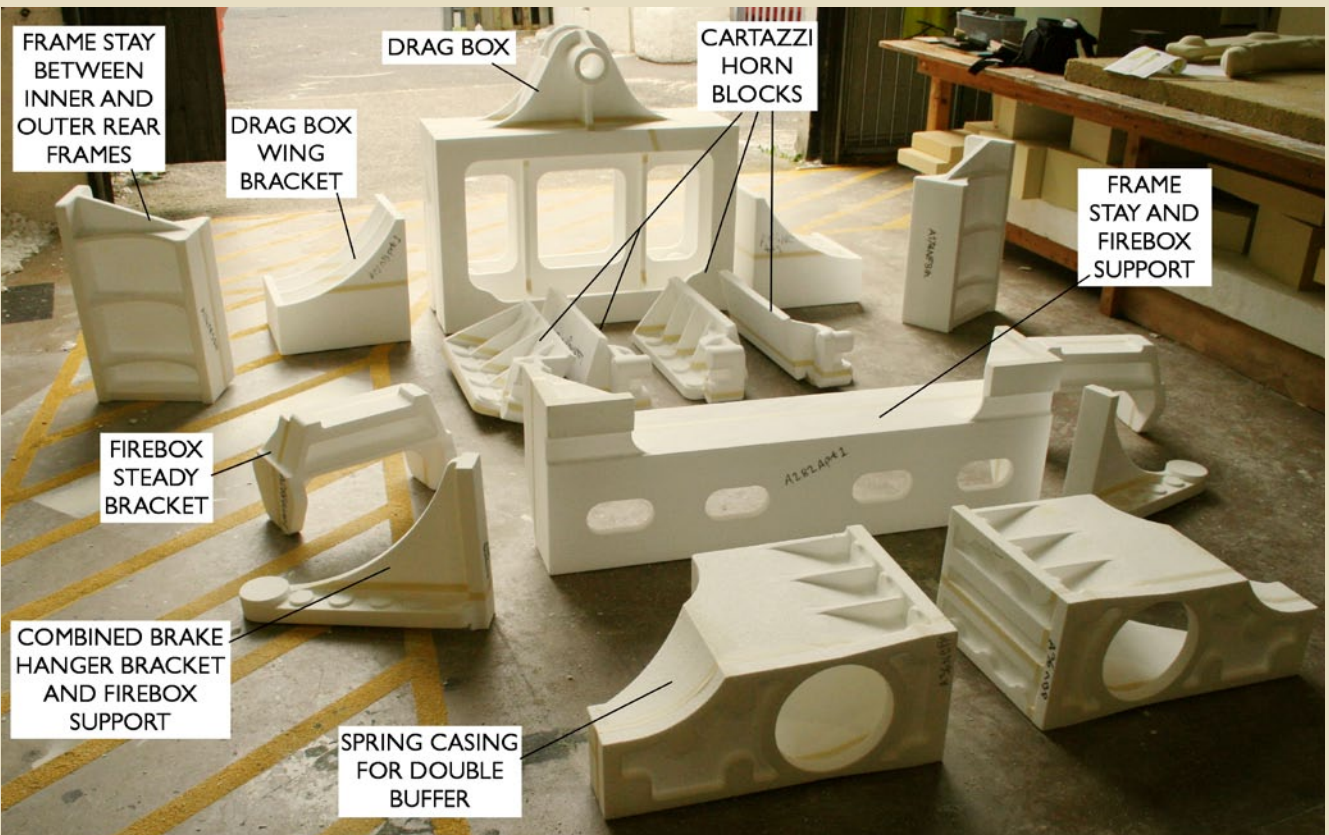
patterns have been completed by Bakers Patterns Limited of Telford and have been despatched to WCCP where they will be used to make cast steel frame stays and brackets. The 3D CAD work has focused on creating a 3D model of *Tornado's* diagram 118a

boiler to check that mounting points on the frames are correct. Footplate brackets and running plate angles have also been added to the model in order to position the holes in the frames as this is required to confirm the drilling pattern for frames.

Andy Hardy

David Elliott

The frames for No. 2007 are profiled at Tata Steel, Scunthorpe



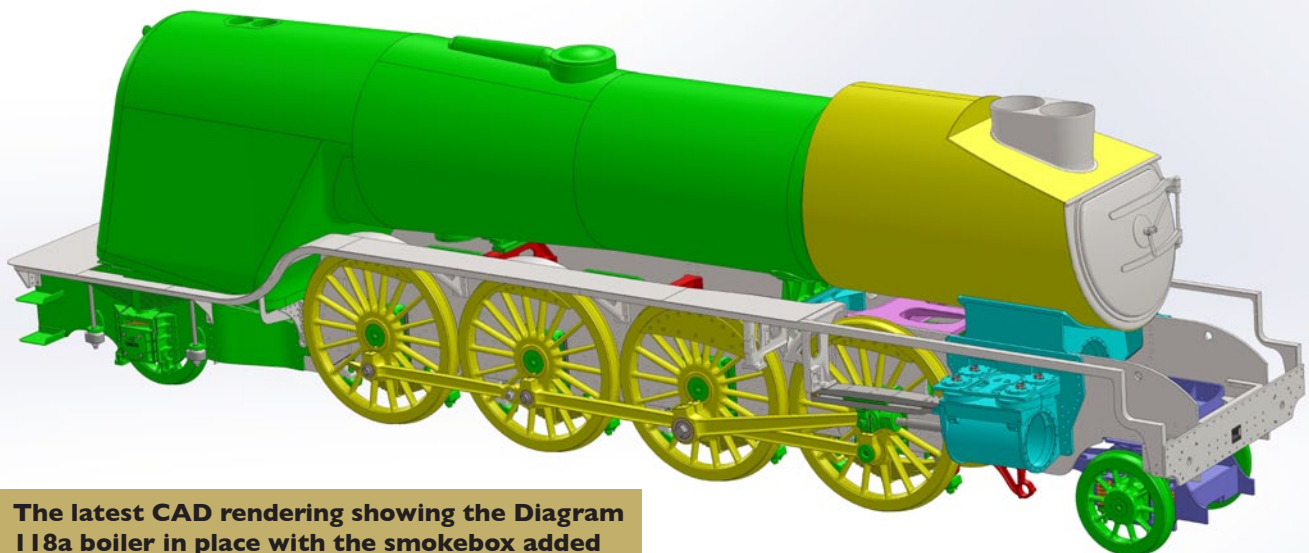
The polystyrene patterns produced by Bakers

● **WHEELS, CYLINDERS & MOTION** - WCCP has almost completed the pattern for the coupled wheels which will be used for casting all

eight 6ft 2in driving wheels for delivery before the end of the year. Further useful historical drawings are coming to light to assist with the development of

a modified version of Lentz valve gear to overcome the known issues in that applied to No. 2001.





The latest CAD rendering showing the Diagram I 18a boiler in place with the smokebox added

● **DARLINGTON LOCOMOTIVE WORKS** - The new mezzanine storage deck over the amenity building is complete which is helping in clearing the workshop floor in readiness for the arrival of the frames for No. 2007 in July.

● **RESEARCH** - As part of the design process we are researching the history of the original P2s and No. 2001 *Cock O'the North* in particular. We have already discovered a significant amount of unpublished material but are sure that there is a lot more out there. If you have any documents relating to or photographs of P2s we would be delighted to hear from you – even more so if you have first-hand experience of the P2s before they were rebuilt in 1943/44.

● **ROADSHOWS**- Although the roadshows that saw the team present about the project in London, York, Darlington, Edinburgh and Aberdeen have now concluded, if any railway society – or indeed other interested group - would like a presentation on the project they should contact us at enquiries@p2steam.com

● **EVENTS** - Darlington Locomotive Works will be open to the general public to view No. 2007's frames for the first time from 11:00hrs to 15:00hrs on Sunday 20th July, with special events for Founders (Friday 18th) and Covenantors (Saturday 19th) beforehand - details to follow.

For more information on the project to build Gresley class P2 No. 2007 *Prince of Wales* please visit www.p2steam.com, email enquiries@p2steam.com or follow us on Facebook, Twitter and LinkedIn.

COVENANTOR SCHEME

We are very pleased to say that the covenant scheme – a P2 for the price of a pint - is now open for everyone to support and that in the last few weeks over 400 people have already decided to get on board – you can see full details [here!](#)

To ensure we keep the momentum going we have now launched the covenant scheme and would be delighted to be able to welcome you aboard. In addition to the link to the leaflet above a [Standing Order form](#) which can be completed and sent to us at Darlington. If you are a tax payer in the UK, you should also complete and return to us the [Gift Aid form](#) which applies to the regular donation made by standing order. Due to new HMRC regulations we have to request a Gift Aid form specifically for covenants. It should also be noted that for clarity we have a specific P2 construction fund account which covenants will be paid into. It only remains for us to thank you in advance for your support.

● **HELP THE P2 – THE FOUNDERS CLUB**

Last chance to join! The Founders Club already consists of over 300 members, whose objective is to raise the funds for the acquisition and cutting of the frames for the Gresley P2 class No. 2007.

Members of The Founders Club each donate £1,000 (in up to four payments of £250 by standing order) allowing the purchase of the steel and subsequent profiling and machining to take place in May/June 2014. In return for this commitment and as well as being the first contributors to this exciting project, members receive these exclusive benefits:

- Reserved seat on No. 2007's first main line train
- Reasonable access to No. 2007 at all times

- Exclusive Founders Club tie
- Opportunity to join one of the teams building No. 2007
- First choice of components to sponsor
- Special limited edition (signed/numbered) of the launch painting of No. 2007 by Jonathan Clay
- Special Founders Club day with *Tornado*

You can **DOWNLOAD** the registration form [here](#) to become a founder.

If you would like any help becoming a member of The Founders Club, or have any further questions, do not hesitate to get in touch by emailing us at enquiries@p2steam.com. The Founders Club will close to new members in July following the public unveiling of the frames.