

# THE MIKADO MESSENGER



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

Welcome to edition No. 47 of *The Mikado Messenger*. The *Messenger* aims to provide a regular bulletin of news about the construction of No. 2007 *Prince of Wales*.

September's big news on No. 2007 *Prince of Wales* is that we have a Mikado! Seeing No. 2007 with all her wheelsets under is quite something. Over the coming weeks, we will be campaigning hard to recruit new supporters for our 'P2 for the price of a pint of beer a week' monthly Covenantor scheme to enable us to hit our 2021 target. More information about becoming a Covenantor can be found [here](#).

## NEWS BRIEFS

**WE HAVE A MIKADO!** - Wheeling the locomotive was made possible thanks to the generosity of our supporters who joined The Mikado Club. The club was launched to fund the wheeling of No. 2007 and in September 2018, we wheeled the engine with the Cartazzi, Pony Truck and Driving Wheelsets. We do still have some wheeling related components available for sponsorship - you can email the Dedicated Donations team [here](#) to find out more.

This means that this is the first time a Mikado wheel arrangement (2-8-2), has been seen in Great Britain since 1945.

You can find more information about the Mikado wheel arrangement [here](#).



We've made a Mikado! Mandy Grant

Metrology Limited of Telford to Darlington Locomotive Works to carry out some measuring on *Prince of Wales*. We are grateful to John Bignall, Director of Bignall Group, for making this happen and for his contributions via our commercial sponsorship route.

These measurements will allow our engineers to precisely align all four wheelsets within the engine's frames. This sponsorship is a significant contribution to the project not only in its monetary value, but also giving the Trust confidence that the results are precise, meaning considerably less time will be needed than using traditional methods. You can read the full story [here](#).



Young aspiring engineers from UTC, South Durham, being given a demonstration on using the 3D measuring device - *Daniela Filova*

• **ANNUAL CONVENTION 2018** - Our annual Convention this year, will be held at the Dolphin Centre in Darlington with a visit to Darlington Locomotive Works after lunch. Our annual dinner will then follow in the Ballroom at Mercure King's Hotel, Darlington. We would love to see as many of you there as possible in *Tornado's* 10<sup>th</sup> birthday year.

**CONVENTION BOOKING FORM**

'**A P2 FOR THE PRICE OF A PINT OF BEER A WEEK**' - We already have over 870 people signed up to donate £10.00 per month, or more through our regular donations scheme. You can download the registration and standing order forms by clicking [here](#).



Mark Allatt, P2 Project Director has a message for all those that haven't yet signed up to our regular donations scheme - *Mandy Grant*

## PROGRESS TO DATE

- Frame plates for engine and tender rolled and profiled; engine's frames erected at Darlington Locomotive Works; all major engine frame stays, brackets, hornblocks, axleboxes and buffers cast (44 in total); over 1,000 fitted and driven bolts ordered and delivered, approximately 800 now fitted to the frames
- All 20 wheels for engine and tender cast and proof machined; roller bearings for all engine and tender wheelsets and engine axles (including crank axle), tyres and crank pins delivered, tender axles, tyres delivered, Cartazzi, pony truck and coupled wheelsets complete
- Preliminary discussions held with boiler manufacturers, with expressions of interest submitted. Forged foundation ring corners manufactured; start made on boiler fittings with castings for combined injector steam and delivery valves, steam stand and valves and superheater header received ready to machine. Boiler cladding trial fitted to engine frames
- Study into ride and suspension completed using rail industry standard Vampire ® software; Finite Element Analysis completed on re-designed crank axle to ensure locomotive complies with modern standards; assessment and notified body appointed to oversee certification - first site visit made
- Smokebox and cab substantially complete
- Crosshead castings received, coupling and connecting rods ordered
- Tender frame construction under way, axlebox and other tender castings delivered from William Cook Cast Products and I D Howitt Ltd of Crofton near Wakefield commissioned to erect tender frame - many detailed parts made including front drag box and brake linkage, castings being machined
- Nameplates and chime whistle delivered
- Over £2m spent, £2.4m raised and £3.1m pledged of the required £5m.

## FUNDRAISING

**THE BOILER CLUB HAS PASSED THE TWO THIRDS POINT** - We are delighted to announce that pledges made to The Boiler Club fundraising campaign have already passed the two-thirds point. Launched in October 2014, to raise the estimated £600,000 needed pay for the manufacture of the boiler, The Boiler Club now has over 160 members who have each donated or pledged £2,000 (plus Gift Aid) meaning that over £400,000 has been raised so far for the boiler. The Trust issued an invitation to tender to manufacture *Prince of Wales'* boiler to over ten organisations in the UK and overseas and has received several proposals and expressions of interests. Over the next few months the Trust will review the proposals received with the intention of selecting a preferred supplier by December 2018, and

placing the order in June 2019 for delivery in January 2021.

**THE MOTION CLUB STEAMS PAST £100,000** - The Motion Club, which was launched in April 2018, has raised over £100,000 of its £210,000 objective and welcomed almost half of its 175-member target. The Motion Club aims to raise £210,000 through 175 supporters each donating £1,000 (plus Gift Aid), in up to eight payments of £125, to manufacture the motion for new Gresley class P2 No. 2007 *Prince of Wales*. Thanks to the generosity of our supporters and the rapid uptake of The Motion Club, the Trust was confident enough to place the £181,000 order with Stephenson Engineering Ltd of Atherton.

For more information on how you can help to build Britain's most powerful steam locomotive visit [www.p2steam.com](http://www.p2steam.com), email [enquiries@p2steam.com](mailto:enquiries@p2steam.com) or call 01325 460163.

## AN AUDIENCE WITH THE *PRINCE OF WALES*

We will be holding a series of presentations on the project to build new Gresley class P2 No. 2007 *Prince of Wales*. Each presentation will feature key team members including Mark Allatt and/or David Elliott and will cover the background to the project, progress to-date, future plans and details of how to get involved. We would encourage you to attend one of these Roadshows and bring along some friends and family members who would be interested in hearing about the project. The two hour presentation will start promptly at 11:00hrs and run until 13:00hrs on each of the days listed below and are open to existing supporters and interested members of the public:

ROADSHOW DATES FOR 2018:

- Saturday 3<sup>rd</sup> November 2018 - Manchester Conference Centre, Manchester
- Saturday 8<sup>th</sup> December 2018 - Hilton Leeds City Hotel, Leeds.

For more information on the P2 Roadshows visit [www.p2steam.com](http://www.p2steam.com), email [enquiries@p2steam.com](mailto:enquiries@p2steam.com) or call 01325 460163.

## PRESENTATIONS

If any railway society - or indeed other interested groups - would like a presentation on the project they should contact us by emailing [enquiries@p2steam.com](mailto:enquiries@p2steam.com)

## EASYFUNDRAISING

Now is the time of year when many people start thinking about Christmas shopping. Why not help the Trust at the same time by doing your online searches through EasyFundRaising, painlessly raising cash for The A1 Steam Locomotive Trust every time you spend online? You can find details of how to do this [here](#).

## VOLUNTEER

As ever we are looking for more volunteers. It takes a lot of people to both keep *Tornado* on the main line and also to build *Prince of Wales*. There is always so much more that we can achieve with the right volunteers, with the right skills and can-do attitude. If you have a passion for raising money or engineering please do get in contact. For more information, please [email us](#).

# TRAVEL WITH *TORNADO*

For more information on *Tornado's* tours and where you can see her, click [here](#).

The Trust respectfully requests that anyone wanting to see *Tornado* follows the rules of the railway and only goes where permitted.

## OPEN DAYS AT DARLINGTON

We hold public open days at Darlington Locomotive Works on the first and third Saturday of every month from 11:00hrs to 16:00hrs. Come and see the progress of No. 2007 *Prince of Wales*.



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