

## Innovating Wheelsets 2020: Maintenance, Sustainability and Value Live online seminar

	<b>Monday, 19 October 2020</b>
	<b>Facilitated Roundtable Discussions</b>
<b>12:45</b>	<p>Before the start of the main seminar, delegates will have the opportunity to join one of two facilitated roundtable discussions in order to network with other engineers and explore specific technical challenges in a less formal setting. These will take place via Microsoft Teams and will allow experts from across the rail sector to hear different perspectives and challenges faced by their peers.</p> <p><b>Roundtable Discussion 1: Challenging traditional approaches to the non-destructive testing of wheelsets</b> <i>John Reddyhoff, Director, Reddyhoff Rail Limited and Member, IMechE Railway Division</i></p> <p><b>Roundtable Discussion 2: Defining Wheelset maintenance 'best practice' to drive a reduction in life cycle cost</b> <i>Andrew James, Engineering Manager, Avanti West Coast and Chair, Wheelset Management Group</i></p>
<b>13:30</b>	<b>Break</b>
<b>14:15</b>	<p><b>Chair's opening remarks</b> <i>John Reddyhoff, Director, Reddyhoff Rail Limited and Member, IMechE Railway Division</i></p>
<b>14:20</b>	<p><b>Keynote address: operator challenges – the engineering perspective</b> <i>Felix Schmid, Professor in the School of Civil Engineering, University of Birmingham and Chair, IMechE Railway Division</i></p>
<b>14:40</b>	Question and Answer Session
<b>14:45</b>	<p><b>Introduction to low adhesion &amp; quantifying the benefits of sanders</b> <i>Liam Purcell, Principal Consultant &amp; Team Leader, Intelligent Infrastructure, Ricardo Rail UK</i> <i>Andrew Lightoller, Principal Mechanical Engineer, DB ESG</i></p> <p><b>Deployment of Magnetic Track Brakes to control performance under low adhesion: current experiences in The Netherlands</b> <i>Marieke Schenker, Technical Consultant, Ricardo Rail Netherlands</i> <i>Jasper Peen, Senior Consultant, Ricardo Rail Netherlands</i></p>
<b>15:25</b>	Question and Answer Session
<b>15:45</b>	<b>Break</b>
<b>16:00</b>	<p><b>Update from the Wheelset Management Group</b> <i>Andrew James, Engineering Manager, Avanti West Coast and Chair, Wheelset Management Group</i></p>

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<b>16:10</b>	Question and Answer Session
<b>16:15</b>	<b>Premium rail steels and their influence on wheels</b> <i>Lindsey Smith, Manager, Rail Technologies, British Steel</i> <ul style="list-style-type: none"> <li>• Introduction to rail steels</li> <li>• Do harder rails make wheels wear faster?</li> <li>• What happens if the wheels are harder than the rail?</li> </ul>
<b>16:35</b>	Question and Answer Session
<b>16:40</b>	<b>Chair's closing remarks and end of day one</b>

	<b>Tuesday, 20 October 2020</b>
<b>13:00</b>	<b>Chair's opening remarks</b> <i>Martin Elliott, Principal Engineer, AEGIS Certification Services Ltd</i>
<b>13:05</b>	<b>GOTCHA data management</b> <i>Peter Williams, Fleet Data &amp; Performance Manager, Avanti West Coast</i> <i>Simon Groom, Wheelsets and Components Engineer, Alstom</i> <ul style="list-style-type: none"> <li>• Overview of the GOTCHA system with Avanti and Alstom.</li> <li>• Improvements made to GOTCHA data and how this has helped improve wheelset maintenance and availability.</li> <li>• New observations from the interaction of GOTCHA data with wheelset maintenance.</li> </ul>
<b>13:25</b>	<b>Use of GOTCHA data in the rail freight industry</b> <i>Les Bryant, Group Engineering Director, Davis Wagon Services and Engineering Committee Chair, Private Wagon Federation</i> <ul style="list-style-type: none"> <li>• Experience of Davis Wagon Services use of the WILD system to monitor the overloading and offset loading of wagons</li> <li>• Observations on the accuracy of the system and implications for use</li> <li>• Future potential uses for WILD data</li> </ul>
<b>13:45</b>	<b>Caring for the contact patch</b> <i>Neil Cooney, Technical Director, SET Ltd</i> <ul style="list-style-type: none"> <li>• Wheels for life - step change in wheel wear (and rail)</li> <li>• Silent running - benefits of controlling wheelset rotational stiffness</li> <li>• Active steering - enabling efficient trains</li> </ul>
<b>14:05</b>	<b>Break</b>
<b>14:50</b>	<b>Wheelset management using accurate real-time information – more life for less work</b> <i>David Vincent, Chief Technical Officer, Perpetuum Limited</i> <ul style="list-style-type: none"> <li>• Installing real-time condition monitoring to enable bearing maintenance management, eliminate in-service failures and improve bogie maintenance</li> </ul>

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	<ul style="list-style-type: none"> <li>Reducing the re-profiling required to maintain good wheel condition by up to 25% through application of wheel condition information</li> <li>Analysing data from monitoring systems and from customer lathe records to demonstrate benefits and discuss possible mechanisms</li> </ul>
	<b>Panel Discussion</b>
<b>15:10</b>	<p>In this session, our panel of wheelset data management experts will take questions live from the audience. Delegates will be able to submit their queries online, vote in polls, and hear from experts on how data can be used to maximise the value of critical rail components.</p> <p><b>Panellists:</b>  <i>David Vincent, Chief Technical Officer, Perpetuum Limited</i>  <i>Peter Williams, Fleet Data &amp; Performance Manager, Avanti West Coast</i>  <i>Les Bryant, Group Engineering Director, Davis Wagon Services and Engineering Committee Chair, Private Wagon Federation</i>  <i>Simon Groom, Wheelsets and Components Engineer, Alstom</i>  <i>Neil Cooney, Technical Director, SET Ltd</i></p>
<b>15:55</b>	<b>Chair's closing remarks</b>
<b>16:00</b>	<b>End of seminar</b>