

Plenary Session Two

Research with an impact: celebrating success



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Session Chair

Reshaping our railway:  
post-pandemic  
Research with an impact

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WCRR2022



Panel discussion at Plenary Session 2

# WCRR 2022 Held in Birmingham

WCRR 2022, the 13th World Congress on Railway Research took place from June 6 to 10, 2022 in the International Convention Centre in Birmingham, U.K., co-hosted by RSSB and University of Birmingham.

WCRR 2022 was organized by its Organizing Committee consisting of UIC, MxV Rail (formerly TTCI) of the U.S., RSSB of the U.K., SNCF of France, DB AG of Germany, Trenitalia of Italy, and

Railway Technical Research Institute of Japan, for the purpose of improving the value of railway research, sharing technical information, and promoting international cooperation.

The University of Birmingham and UNIFE (The Association of the European Rail Supply Industry) joined the Organizing Committee for this congress.



- **Congress theme:** Reshaping our railways post-pandemic: Research with an impact
- **Participants:** 757 people from 31 countries, 60 from Japan and 22 from RTRI
- **Plenary sessions:**  
 Three plenary sessions were organized and the Organizing Committee members, railway operators (mainly from Europe), research organizations and representatives of manufacturers joined the panel discussions. Representing Japan, Executive Director Furukawa of RTRI joined Plenary Session 2 “Research with an Impact: Celebrating Success” and talked about the results of Japanese anti-seismic measures, cost reduction by introducing multi-purpose telecommunication lines to wireless train control, and research and development in Japan to decarbonize railways.

|                  |   |
|------------------|---|
| <b>Session 1</b> | The railway in a post-covid transport landscape |
| <b>Session 2</b> | Research with an impact: Celebrating success    |
| <b>Session 3</b> | The journey to rapid benefit realization        |

- **Presentations:** 168 presentations for oral sessions (10 from RTRI)  
 130 presentations for interactive sessions (8 from RTRI)

**Executive Director Furukawa and plenary session participants**



**○ Awards:**

Nine presentations from a total of 298 were selected for best paper awards, one from each of 9 categories. From Japan, Mr. Hiroshi Yoda, Assistant Senior Researcher of RTRI received the Best Early-Career Researcher Award for his presentation “Improvement of the Wireless Power Transfer System for Railway Vehicles”.

\*The next WCRR will be held in 2025 in Colorado Springs or Denver in the U.S., hosted by MxV Rail.

**Best Early-Career Researcher Award winner Mr. Yoda**



**RTRI's exhibition booth representing the JR group companies**

**Best Papers and award winners**

| Name                  | Organization                               | Category                                       |
|-----------------------|--|--|
| David Thompson        | University of Southampton (UK)             | Low Emissions Railway                          |
| Daniel Schmeling      | DLR (German Aerospace Institute) (Germany) | Easy to Use for All                            |
| Javier Goikoetxea     | CAF (Spain)                                | Optimised Operation                            |
| Riccardo Licciardello | Sapienza University of Rome (Italy)        | Reliable and Easy to Maintain Moving Assets    |
| Bleddyn Davies        | Network Rail (UK)                          | Reliable and Easy to Maintain Fixed Assets     |
| Sebastian Stichel     | KTH Royal Institute of Technology (Sweden) | Reliable and Easy to Maintain Asset Interfaces |
| Allan Armougum        | SNCF(France)                               | Safety and Security                            |
| Giusy Elena Caci      | Italferr (Italy)                           | Rail Competitiveness                           |
| Hiroshi Yoda          | RTRI (Japan)                               | Best Early Career Researcher                   |