

Newsletter on the Latest Technologies Developed by RTRI

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Railway Technology Newsletter

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R&D and International Activities at RTRI

Shunichi KUBO

Director, Research and Development Promotion Division

RTRI has been engaged in research and development based on its vision and the five-year project plan (Master Plan RESEARCH 2020) which started in FY 2015. To achieve the vision, one of the plan's missions is to pioneer cutting-edge technologies for Japanese railways and become a world leader by working to develop technologies that contribute to railway systems in the world. Our strategies to achieve this goal include the expansion of our international presence, the promotion of the international exchange of researchers, and the support of the overseas development of railway systems.

For the expansion of our international presence, we will expand our joint research projects with overseas universities and research institutes while preparing and operating the World Congress on Railway Research (WCRR). We will further increase the opportunities to announce the results of the RTRI's R&D efforts by holding international workshops and attending international conferences.

Our current joint research projects with overseas railway organizations include an electric power and railway track simulation project with France and a research project with Germany on micro-pressure waves in tunnels. Joint research with China and Korea, and projects with the U.K. are also under way. Furthermore, we are engaged in joint research with universities and research institutes in fields such as bogie control, passenger behavior in the event of a



train crash, dynamic interactions between vehicles, tracks and structures, and the maintenance of earth structures. For the promotion of the international exchange of researchers, we are planning to increase the opportunities for direct discussions with overseas researchers by dispatching our staff and accepting researchers in joint research projects with overseas institutions. In addition, we will support the efforts of building a global network of researchers by holding international workshops.

With regard to the support of the overseas development of railway systems, we set up a new department in July 2015 for the overseas promotion of the RTRI's R&D efforts.

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