

Newsletter on the Latest Technologies Developed by RTRI

Railway Technical Research Institute 2-8-38 Hikari-cho, Kokubunji-shi Tokyo 185-8540, JAPAN URL: http://www.rtri.or.jp E-mail: iainfo@rtri.or.jp

Editorial Office: Ken-yusha, Inc. URL: http://www.kenf.jp/en/

Copyright © 2013 Railway Technical Research Institute. All rights reserved. Reproduction in whole or part without permission is

prohibited. Printed in Japan.

Rail	way	7
Tech	no	logy
Ava	_	

December 25, 2013 No.45

GENERAL INFORMATION	
■ Foreword Fuminao OKUMURA	265
■ The 10 th WCRR 2013 Held in Sydney	266
■ Japan to Cooperate on Sweden's Plans for High Speed Rail	266
ARTICLES	
■ Improving Reliability of Thermite Head Repair Welding Hajime ITO	267
A Risk-Based Technique to Support Decision-Making on Falling Stone Preventive Measures Osamu NUNOKAWA	
■ Estimation of the Probability of Lightning Hazard on Railway Signalling Systems by Observing Induced Overvoltage Hideki ARAI	269
■ Friction Stir Welding Technology to Apply Flame-resisting Magnesium Alloy to High-Speed Rolling Stock	070

Foreword

Fuminao OKUMURA

Executive Director

I was appointed as Executive Director on June 13, 2013, to oversee three Divisions of RTRI: Compliance, International Affairs and Marketing/Business Development. Previously I had made my best efforts to facilitate smooth management for four years in the Administration Division, firstly as Deputy Director and then as Director. Now I will devote myself to my duties at the new post and vigorously promote exchanges with outside organizations, domestic and abroad, bearing in mind the benefits of enhancing the image of RTRI all the time.

Regarding international affairs, I believe it is most important to collect and transmit global information, assess the development of railway technologies and research across the world and tactfully transmit the results of RTRI's research and development activities. In this context, it is fortunate that joint research initiatives are being launched one after another with universities and research institutes in foreign countries. Exchanges of researchers shall be intensified in various forms to raise the presence of RTRI on a global basis.

RTRI's international activities shall also be strengthened to contribute to the establishment of a worldwide network of researchers. Therefore, RTRI shall increase human resources that will be welcomed everywhere in the world.



Since the inauguration of RTRI, 26 years have passed. In the meantime, superior researchers have been successfully recruited or developed to make RTRI a research organization embracing robust researchers. I believe that an advantage of RTRI is its researchers are highly specialized in a wide range of disciplinary areas. We need to continue to polish the capabilities of individuals and create research outcomes beyond imagination to surprise the world through collaboration among those in different fields.

Fuminao Okumura