

Dears Readers

We are offering you the 183rd issue of Railway Reports. It opens with a very interesting article by Professor Henryk Bałuch, dedicated to extremely current issues of climate change and the depletion of existing energy sources. According to the author, it is necessary to take into consideration ongoing changes in the design and construction of new railway lines.

The area of traffic control-command and signalling is contained in the article by M. Bartczak from K. Pulaski University of Technology and Humanities in Radom, which concerns switch point control circuits with miniature safety relays. The article by D. Bryja and A. Hylański of Wrocław University of Science and Technology features numerical analyses concerning the influence of droppers' stiffness on dynamic interaction between the pantograph and railway catenary network. Three articles are devoted to the subject of rolling stock, two of them present the problem of wheelsets. Publication of the authors' team from PKP Intercity, Newag and Cracow University of Technology focuses on diagnostic features that are used to assess the wear of wheelsets during their operation. In turn, the article by the authors' team from Poznan University of Technology is devoted to numerical analyses and tests of a new segmented brake disk fixed to the wheel of a wheelset used in electric multiple units. The article by M. Grzywina, T. Rasiński from Cracow University of Technology, looks into freight wagons equipped with passive safety mechanisms, such as sub-assemblies to absorb impact energy and eliminate the wheel climbing phenomenon.

The article by S. Finke and M. Motyla from Poznań University of Technology deals with the issues of freight transport. It discusses the barriers to interoperability in transport of goods by rail between China and Europe in the context of the creation of the New Silk Route.

*Wishing you interesting reads,
PhD, Eng. Andrzej Massel,
Editor-in-Chief*