

Dear Readers

The 169th issue of Problemy Kolejnictwa [Railway Reports] is being published at a time of great uncertainty associated with the ongoing war beyond Poland's eastern border, as well as the worsening economic situation in virtually all European countries. This state of affairs also affects the day-to-day operation of transport and activities of business entities involved in its provision, along with the production of means of transport and elements of infrastructure. Despite difficulties, it is necessary to look forward and be aware that there will always be a need for transport and that innovations are necessary to make it more efficient, more comfortable and, at the same time, cheaper and more accessible. The current issue of our quarterly is devoted to such innovative solutions.

It begins with an article by A. Dąbrowski and S. Klemba from the Railway Track and Operation Department of the Railway Research Institute. The paper concerns the possibility of increasing the importance of railways in the public transport system of the Urban Functional Area of Olsztyn. It is a logical continuation of the work published in issue 195.

The following article, written by M. Graff, is devoted to the construction of modern and universal electric and diesel locomotives for passenger and freight transport.

The paper by K. Polak from the Railway Track and Operation Department of the Railway Research Institute deals with a novel indicator method of assessing the acoustic impact of railway vehicles. The solution proposed by the author is the noise load factor, based on measurements of physical quantities, which makes it possible to carry out a broader assessment of acoustic nuisance associated with railway traffic.

The article prepared by a team of authors from Cracow University of Technology, led by H. Sanecki, addresses the modelling of the construction of power systems of modern trams, characterised by low floors and small diameters of wheels.

The quarterly ends with a paper by G. Stencel from the Railway Track and Operation Department concerning new technological solutions facilitating railway passenger services on the example of the In2Stempo and ExtenSive projects, implemented as part of the Shift2Rail programme.

Wishing you an interesting read

Andrzej Massel
Editor-in-Chief