

## **Andrzej Zbieć: Seminar “Causes of Uneven Wear of Wheelsets in Freight Wagons”**

The article presents the main theses of the seminar related to the issue of uneven wheel wear in freight wagons. This phenomenon is caused by various factors, such as the type of running gear, wheel hardness, wagon geometry, improper adjustment of springing (pressure distribution), incorrect connection of body – bogie and other reasons resulting from improper maintenance of the wagon. All causes can occur alone or in combination – overlapping or abolishing. The non-parallel arrangement of wheelsets in the bogie is indicated as the most important reason for uneven wheel wear, since even when running on a straight track, the bogie behaves as if it was moving on a curve. This results in continuous contact of the rim of one of the wheels, the running wheelset with the rail, causing accelerated wear of the rim. An example of the simultaneous impact of several factors is shown in the figure.

**Keywords:** seminar, wagon, running gear, wheelset, wheel, wear of wheelsets