

## ELECTROCHEMICAL WEAR OF RAILS IN TRAM TRACKWAY

Józef DĄBROWSKI,  
Przemysław SZOSTAK, Ryszard SZYSZKO

**ABSTRACT**      *Mechanical wear of rails is a phenomenon known and described in the literature and also visible in the track for an outside observer. The electrification by direct current of rail transport causes additional hazards in the track in relation to the rails. In the technical literature, there are many items regarding the impact of currents straying on underground metal infrastructure and ways to protect these structures. In this work, attention is paid to the fact that stray currents also contribute to wear – changes in the geometry of rails – in places other than the rail head. Examples of such wear are given to the conditions that must occur in order for the effects of stray currents to become visible.*

**Keywords:** *stray currents, trackway*