



Physico-Technological Institute of Metals and Alloys NASU

Development of cast iron with high resistant to wear and high-temperature properties

Scientific leader - Deputy director, Professor / Metallurgy, technology of metals

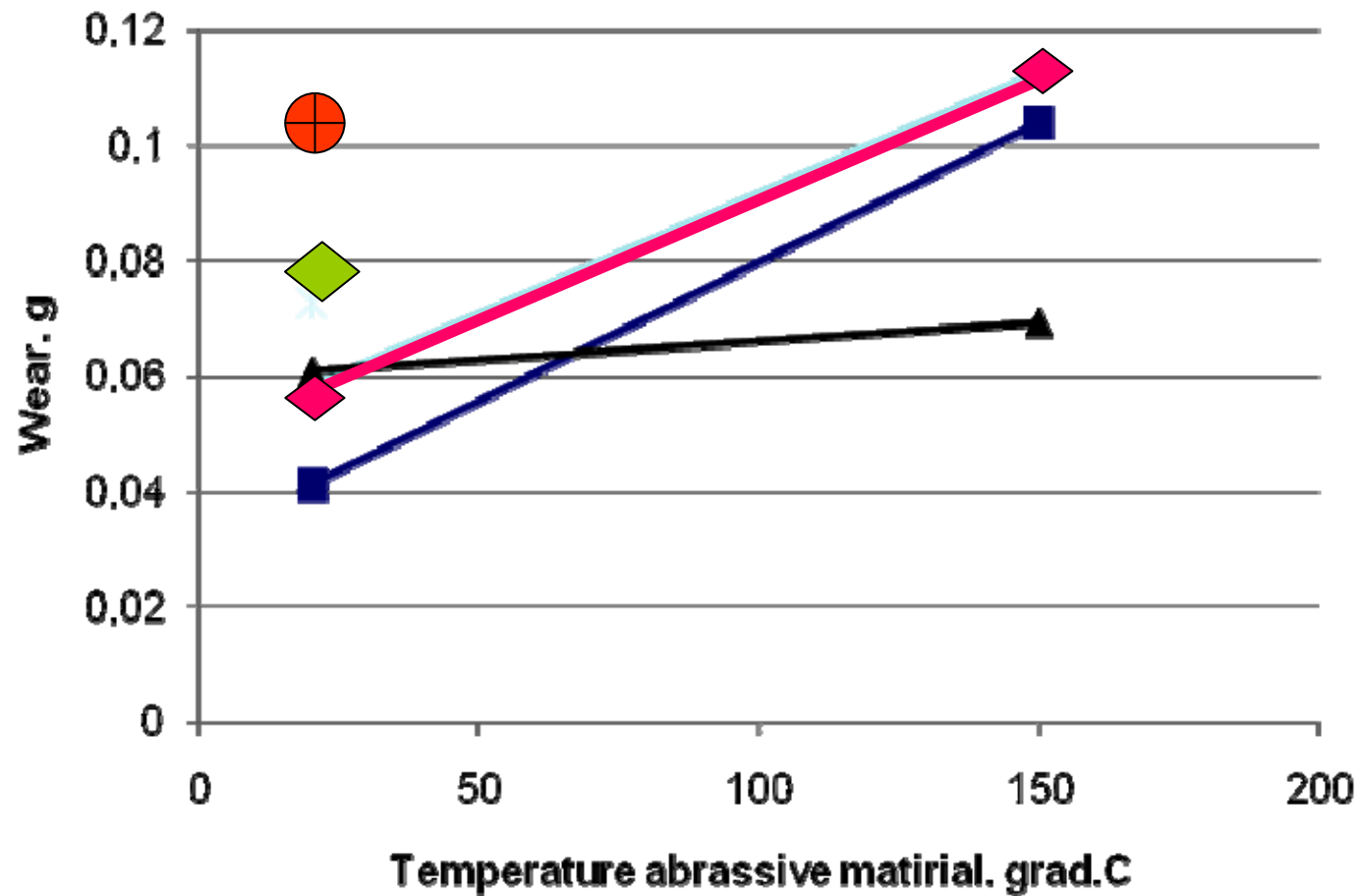
Vladimir Petrovich Gavriluk

Responsible performer - Deputy of manager by a department Dr. of Pf.

Valerii Andreevich Loktionov-Remizovskii



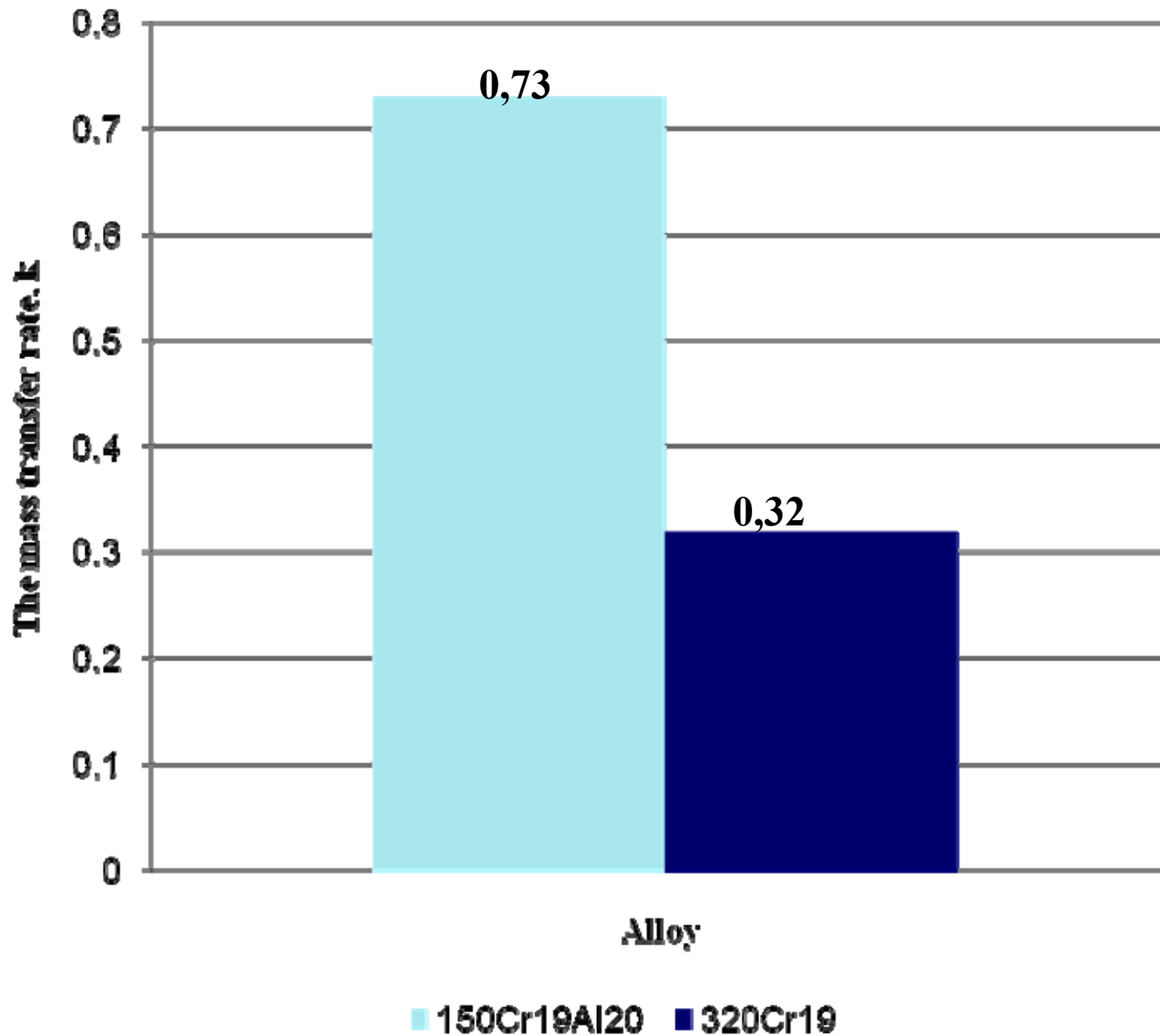
Temperature abrasive material on wear alloys

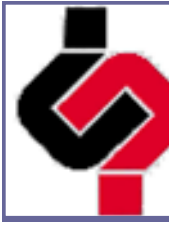


◆ 150Cr19MnCu ■ 250Cr19CuMo ▲ 150Cr19Al20
● Steel 1,2%C ◆ 320Cr18

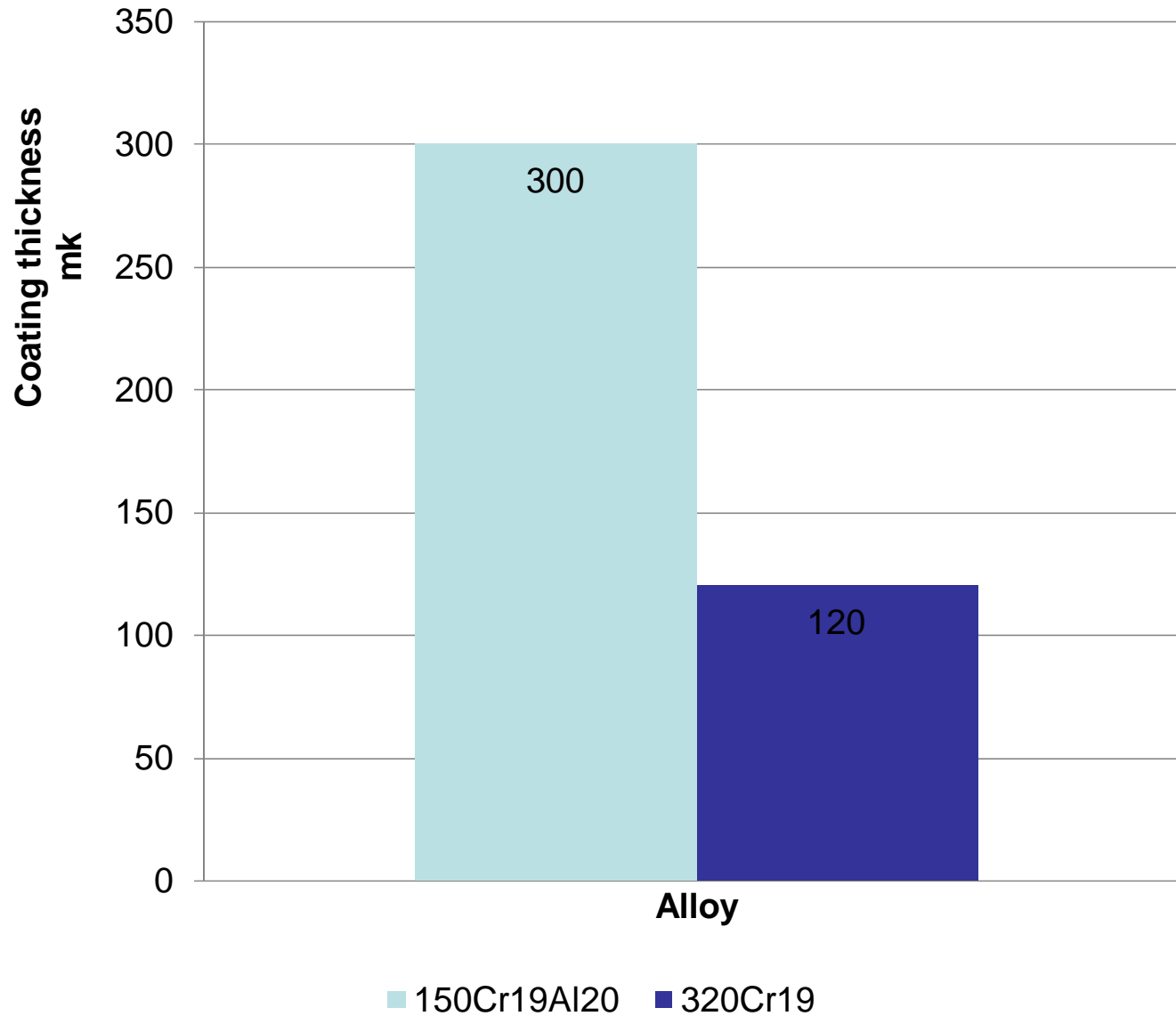


The impact of the mass transfer rate, aluminium



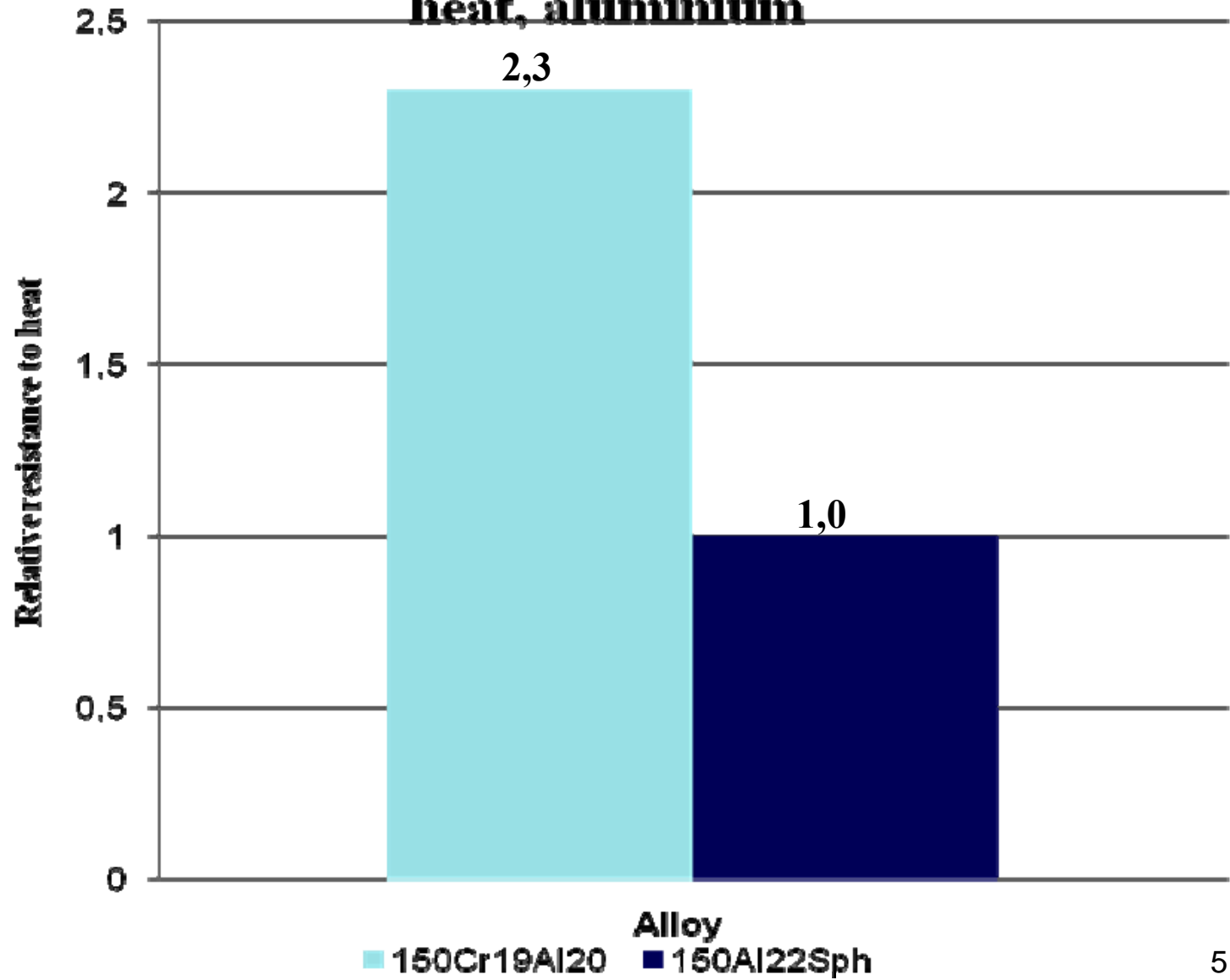


The impact of aluminum coating thickness



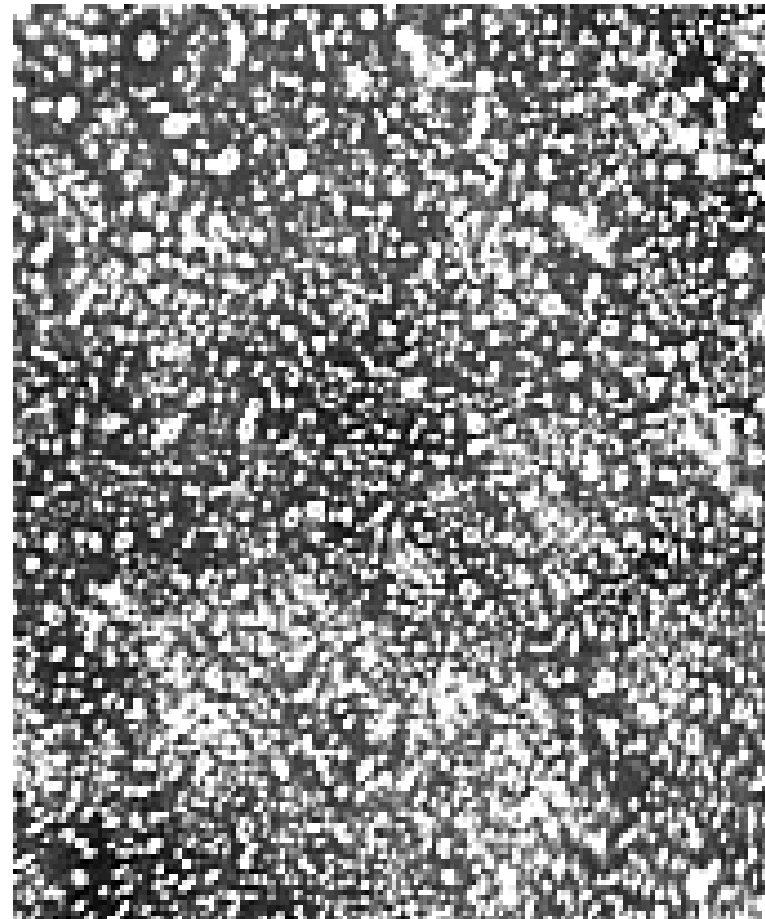


Relative impact resistance to heat, aluminium





a



б

**Shape carbides in samples of chromium- aluminum cast iron
a – as-cast condition; b — after heat treatment**



The influence of heat treatment on abrasive wear

