LIGHT METALS RESEARCH – LEGACY AND CURRENT STANDING

V. C. SRIVASTAVA#, P. PODDAR, V. RAJINIKANTH AND K. L. SAHOO

The ever increasing emphasis on the specific strength and the stringent material characteristics sought in various industries, catering to aerospace, defence, automobiles and load bearing structures have led to an unprecedented worldwide thrust on the development and processing of light metals and alloy products. These include Al-, Mg-, and Ti-alloys, metallic foams and metal matrix composites. CSIR-NML not only has an illustrious legacy but has kept pace with international research on light metals and alloys till date. Research in this area has culminated in several new materials and processes, which have seen commercial exploitation and/or transfer of technology to the industries. This paper highlights the accomplishments of CSIR-NML vis-à-vis contemporary national and international research trends.