

# PREFACE

Nowadays transport is one of the most rapidly growing part of industry in all areas including infrastructure, vehicles and transportation systems. This discipline needs new, innovative and economically proofed developments.

Advances in transport stem from advances in basic science. The transport domain is interdisciplinary domain which joints many different scientific and engineering disciplines. One of the most important knowledge needs for transport development is knowledge in mechanics. The synergy between mechanics and transport science gives possibility to find new effective solutions of design, manufacturing and services problems. Due to globalization of the market, international cooperation in applied research is very fruitful and helpful. The discussion between scientists who are active in different areas related to transport indicate new innovative and effective possible solutions of technical and engineering problems which are commonly joint to design and manufacturing of transport equipment.

The Workshop on Advances in Mechanics and Transport organized in Kurozweki, POLAND, April, 2006, represented unique opportunity for the scientific and technical communities to interact and to compose applications of current achievements of mechanical science in transport. The meeting covers activities related to theoretical, numerical and experimental studies in areas related to transport. This event has been made possible through a number of German and Polish professors among them the primary role played prof. G.P. Ostermayer and prof. R. Bogacz who initiated this periodical scientific event. For many years, Polish - German cooperation in science and technology development is successful and based on idea of mutual cooperation in the frames of research projects. But personal relations between members of research communities is important, also

Many useful and new results have been obtained and many new concepts of day life transport problems have been solved within this long term cooperation.

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