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and Manufacturing Engineering



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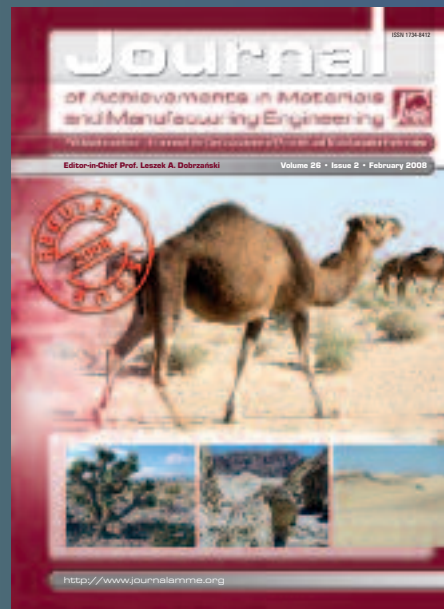
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Cover story

Prof. Jerzy Buzek M.Dr H.C., a Member of the European Parliament, a Former Prime Minister of the Republic of Poland said that preventing climatic changes, it is necessary to keep energy supplies and to be still competitive. It is a main task, the most important one (...) Today there is a struggle in order to limit the changes for 2 degrees what is very difficult. As far as the ecosystem is concerned – coral reefs, very important in the places where they appear, also economically, disappear gradually. Many species of plants



and animals also disappear. Yet because of the increase for 1 degree surely the frequency of violent storms, fires, periodical droughts and almost everywhere floods and waves of heats increase. There are examples (...), very little probable that it has become not without reason, without human interference. The climate (...) is changing (...) almost everywhere (...) How do we know that? These are researches and simulations of heat of our environment (...) if thousands of scientists work on it (...), we must also (...) feel responsible for those prognoses (...) Carbon dioxide, greenhouse gasses in our circumterrestrial atmosphere act as a greenhouse glass. The planet becomes warm during the day and does not get cold during the night like it used to be for million years. And that is all. (...) Our continent Europe, leading economically for centuries took the responsibility for the civilisation development of the World in the past (...) and it is Europe which today formulates the furthest going programmes of counteracting climatic changes (...) Catastrophic visions of changes on the Earth are quoted, if we do not bring under control that phenomenon (...) The increase of average temperature for 4 degrees, very probable today, is drastic, catastrophic decrease of crops probably for 50% in the World scale. Taking into consideration the fact that ca. 1/3 population on the Earth starve periodically today, it is difficult to imagine such a catastrophe. (...) The increase (...) for 2 degrees is the decrease of supplies of drinkable water (...) in Europe, especially in the basin of Mediterranean Sea – the increase for 4 degrees is flood in ca. 10% of main cities in the globe, a danger for others and desert droughts of ca. 40% of the Earth territory on which plants are cultivated in order to live and feed mankind. (...) The picture on the cover presents the Sahara desert in Africa with typical dromedaries and desert flora, completely burn out by the sun and desert flora - Joshua trees in a half-stone desert in Nevada in USA, a desert, completely stony and without plants in Death Valley in California in USA and sand dunes in the region of west Tunisia. In the pictures below there are a desert in Australia, a bottom of salt and dry lake in the depression of Badwater in California in USA, a stony desert Gobi in Mongolia and Nubian Desert near great pyramids west from Giza in Egypt.

The level of the gas emission strictly connected with productive activeness and the level of technology has a greater influence on climate changes. From that reason that issue depends strictly from engineering activeness and must be in the range of interests of scientific and technical societies. It just justifies the picture of a dromedary on the cover of the scientific journal concerning materials and manufacturing engineering.