



“Gheorghe Asachi” Technical University of Iasi, Romania



REDUCING ENVIRONMENTAL POLLUTION FROM MOBILE SOURCES

**Walter Thierheimer*, Nicolae Țane, Romulus Gruia, Liviu Gaceu, Diana Thierheimer,
Daniel Ola, Mihai Clinciu, Vasile Cojocaru**

“Transilvania” University of Braşov, Faculty of Food and Tourism, 1-3 Politehnicii Street, 500036 Braşov, Romania

Abstract

Atmospheric pollution has often serious consequences to both man and environment, occurring under various forms: home dirt, affected plant growth, diminished quality of agricultural products, reduced visibility, unpleasant smells, and most importantly impaired health. As an unanimous conclusion, all completed research highlights the effects of atmospheric pollution as being a series of consequences on the climate, like: the greenhouse effect determined by the increase of carbon dioxide, cooling generated by an increase of particle concentration in the air, and modifications of the ozone layer. Further, disturbances of the cycles of carbon, oxygen, sulphur may occur, the latter being already well-observable by the increasingly acid rains. These immediate effects are completed by other indirect categories of damage and expenditure due to atmospheric pollution, like replacement and protection of precision apparatus, new sanitary measures in food industry, medical costs, the cost of work time lost due to working incapacity of individuals suffering from consequences of atmospheric pollution. The paper brings an analysis of future technologies and possibilities of diminishing polluting emissions of heat engines.

Key words: catalytic converter, environmental pollution, exhaust

Received: July, 2010; Revised: December, 2010; Accepted: December, 2010

* Author to whom all correspondence should be addressed: e-mail: thierheimer@unitbv.ro; Phone: +40-766600568; Fax: +40-268472222