TITLE:

FUEL EFFICIENCY AUGMENTATION BY EFFECTIVELY UTILIZING THE HEAT PRODUCED IN THE INTERNAL COMBUSTION ENGINE .

ABSTRACT:

Internal combustion (IC) engine produces large amount of heat energy. Only about one third (1/3) of the fuel energy is gainfully converted to mechanical energy, to run an automobile. The rest of the two third (2/3) energy is lost to the environment, in the form of heat energy, that directly adds to the Globing Warming, in addition to CO_2 and other more harmful green house gases. It is high time that we take account of every single calorie of heat energy that is wasted and try to find means and ways to recover and conserve this energy as much as possible, utilizing all scientific and technical knowledge. The present research is an attempt to recover and effectively utilize waste heat energy produced by IC engine. Different models, as described in materials and methods, will be constructed and tested for energy efficiency, in two phases:

1. Lab Experimentation, and
2. Field Trials

This research is intended to be result-oriented, and therefore would be flexible to consider all conceivable modifications and possibilities, even not included in materials and procedures. When combined with hybrid technology, a super efficient auto engine will evolve, and that will be a breakthrough in automobile technology with a considerable reduction in oil demand and global warming.