ABSTRACT

Several technologies established for tire utilization were reviewed in order to determine the best used of discarded tires. The technologies reviewed were retreading, reclaiming, splitting, combustion, pyrolysis, used in breakwaters, erosion control structures, reefs, pavements, general construction materials, etc. Based on the information collected, it was concluded that the use of discarded tires in construction of pavements, erosion control structures, reefs, impact absorbing products, etc. were viable alternatives to dumping of discarded tires. In addition, the use of tire rubber in the construction of rubberized pavements is extensively reviewed. A recommendation is also made for used of tire rubber in new construction materials suitable for highway construction application.