

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ
КАФЕДРА ІНОЗЕМНИХ МОВ
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР**

**МАТЕРІАЛИ
VIII МІЖВУЗІВСЬКОЇ НАУКОВО-ПРАКТИЧНОЇ
КОНФЕРЕНЦІЇ
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО ЦЕНТРУ
КАФЕДРИ ІНОЗЕМНИХ МОВ**

“TO LIVE IN A SAFER WORLD”

(Суми, 28 березня 2014 року)

The eighth scientific practical student`s, postgraduate`s and teacher`s
LSNC conference

PERPETUAL MOTION MACHINE

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For many centuries scientists and inventors have tried to create perpetual motion machines, but even in those times they understood that the attempts to build such machines were vain and foolish.

Bishop Wilkins' magnetic perpetual motion machine can be a good example of "freak and curiosity". They say he believed it was perpetual motion machine, but in fact it is the illustration of waste of time. The first documented perpetual motion machines were described by Indian author Bhaskara. This machine represents a wheel with containers and mercury in them. One more example of perpetual motion machine is Taccola's wheel. Leonardo da Vinci analyzed the results of other inventors and came to a conclusion that either displacement of gravity or disbalance of the device could not lead to perpetual motion. Mark Anthony Zimara suggested a perpetual motion machine without the use of water or a weight, like the wheel of a windmill. This is an early example of the "bootstrap" principle of perpetual motion.

Over the time inventors became less interested in creating just a perpetual motion machine, they wanted an "over-unity" performance — unlimited energy output for free. "Over-unity" means an energy efficiency greater than one. Let's assume we are to get 200% efficiency. What is the best way to do it? The first device being powered should shore 50% of its energy with the device adjusted to it.

Having tested all these devices there is no doubt that in theory they have the right to existence, but practically as Jacob Leupold said "you can't get more work out than you put in"!