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

MAGLEV TRAINS

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Maglev trains are wonderful inventions that fly on air. They use magnets to levitate and propel the trains forward. There is no friction between the train and the track!

The batteries can levitate the train for 30 minutes without any additional energy. Linear generators in the magnets on board the train use the motion of the train to recharge the batteries.

Different speeds are achieved by varying the intensity of the current. Collisions between trains are unlikely because computers are controlling the trains' movement.

A train is composed of sections, each contains 100 seats, and a train can have between 2 and 10 sections. A train can travel at about 300 mph.

The train can travel at about 300 mph. It can accelerate to 200 mph in 3 miles, so it is ideal for short jumps.

It uses less energy than existing transportation systems. For every seat on a 300 km trip with 3 stops, the gasoline used per 100 miles varies with the speed.

They use less land than conventional trains, and they can follow the landscape better than regular trains.

The train makes little noise because it does not touch the track and it has no motor. Therefore, all noise comes from moving air. This sound is equivalent to the noise produced by city traffic.

This train uses superconducting electric magnets in the vehicle to levitate and propel the train. Once electrified, these magnets do not require additional energy.

Maglev is a safe and efficient way to travel. The magnetic field created is low, therefore there are no adverse effects. Governments have mixed feelings about the technology. Maglev trains need to be viewed as a technology of the future. Because they cannot share the infrastructure that exists for wheeled trains, maglevs must be designed as complete transportation systems.