

**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

THE SIGNIFICANCE OF THE AIR CONDITIONING IN OUR LIVES

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Maintaining an optimal climatic conditions in apartments, houses, offices, cars, as well as cleaning indoor air of harmful particles - all these make an integral part of our life. For a modern man this comfort is a necessity and not a luxury. Otherwise life becomes unbearable. We are so accustomed to some of the modern facilities that can not even imagine how we got along without air conditioning before. Such benefit of civilization as air conditioning has quite closely incorporated into our daily lives.

History of a conditioner is the story of the company Carrier. One hundred and ten years ago, a talented inventor, a young scientist Willis Haviland Carrier created the first device to control the indoor temperature and humidity in the printing house. In 1906 he patented his "device for treating air". Now branded Carrier produced about 12% of the total number of air conditioners in the world. Today Carrier logo is on every eighth air conditioner.

Air conditioning is a device for cooling the indoor air. As an extra function it also provides heating. In fact it is the same refrigerator but turned inside out. Inside this device special substance (refrigerant) circulates and it is at the transition from one state (fluid) into another (gas) which tends to absorb heat (to take it from the heated air.) Refrigerant circulates through a system of tubes (cooling system) through which warm air is blown by an electric fan. The basic units of any air conditioner are: compressor, condenser, evaporator, thermal expansion valve and electric fans. Various manufacturers of these devices only make some improvements and completion, but the working principle remains the same. They may differ only in appearance and some features of the electronic control circuit, but to be absolutely similar in the arrangement and the air cooling system.

Air conditioners become an indispensable attribute in our lives. With new technology, we have highly functional filters which cope not only with the dust, but also with the smell.