

**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”

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The eighth scientific practical student`s, postgraduate`s and teacher`s
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HARD DRIVE DISK AND MEMORY STORAGE

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Evolution of methods of memory storage has gone a long way from cave paintings to the hard drives, which we successfully use today. History of hard disk drives began in 1956 and continues to this day. This invention has been a great breakthrough in the development of IT technology.

Today this device received the propagation of the name –

" Winchester" . In one version the hard drive got it thanks to the work of Kenneth Houghton, a project manager in IBM. It resulted in 1973 when the hard drive model 3340 was released. For the first time one-piece platter and the read heads were united in one body. The design engineers used for it a short internal name " 30-30 " , which meant that there were two modules with 30 megabytes each, consonance coincided with the designation of the popular hunting weapons rifles Winchester Model 1894 , which used a 30-30 rifle cartridge .

As for " Winchesters " , they use aluminium drives and consist of three blocks of details. The first block usually consists of several disks made of metal or glass. The second unit consist of mechanical hard drive, which rotationally drives the entire disk array, as well as precise positioning of the reading heads . The third block consists of electronic parts: chips , chips that process data , correct the errors and run mechanics.

The basic function of the device is the storage of memory. Today, modern hard drives can store up to 20 terabytes of memory, unlike their predecessors, which had two modules with a volume of 30 megabytes. That is enough to store approximately 10,485,760 books , or 69,905,066 images, or 4096 movies in FULL HD. But we must remember the Moore's law: every year the amount of information doubles.