

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

**МАТЕРІАЛИ XI ВСЕУКРАЇНСЬКОЇ
НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ
СТУДЕНТІВ АСПІРАНТІВ ТА ВИКЛАДАЧІВ
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО
ЦЕНТРУ КАФЕДРИ ІНОЗЕМНИХ МОВ**

“TO MAKE THE WORLD SMARTER AND SAFER”

(Суми, 23 березня 2017 року)

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY STATE UNIVERSITY
FOREIGN LANGUAGES DEPARTMENT
LANGUAGE CENTRE

**MATERIALS OF THE ELEVENTH
ALL UKRAINIAN SCIENTIFIC PRACTICAL
STUDENTS', POSTGRADUATES' AND INSTRUCTORS'
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(Sumy, March 23, 2017)

QUASISTATIC CAVITY RESONANCE (QSCR)

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Nowadays our life continuously connects various kinds of gadgets. Most of these devices work using an accumulator. But the reserve of energy in batteries is emptying very fast. We need to charge the battery over and over again for using gadgets to continue our work.

Often the battery has a low energy level unexpectedly: when we have not a charger or there isn't any rosette nearby. But even if we can charge the device we almost cannot move on while the battery is charging.

So, sometimes a wire charger is very inconvenient. As an alternative, there are powerbanks. But in this case, we have not to forget to charge the powerbank.

The solution of this problem was found in the company “Disney”. “Disney Research” has built a room, where devices can be charged without any wires. In this room, the copper pole locates in the centre. In the middle of the column, there are several capacitors, and aluminium panels are built into the walls. This technology is called a quasistatic cavity resonance (QSCR). It is based on the delivery of energy using a seamlessly magnetic field.

The main advantage of this technology is its power. Ten different devices could be charged in the room during the experiment. The result of it showed that it would be possible to charge 320 smartphones at the same time. Also, this technology has the opportunity to make the room bigger. It just needs to increase the number of columns. It can be used in different places: either it would be a small room in the office or large storages in the docks.

The quasistatic cavity resonance is a new technology, and it has not been ready yet. We do believe that in the nearest future people will be able to use it, and our life will become much better and easier. Furthermore, QSCR opens new horizons in science and takes new opportunities for next steps in humanity growing.