

# Program of the English Language Conference 2014

(Department of applied mathematics)

Wednesday, 14.05.2014 - time: 8.30 a.m., room 120

## 1. Vladislav Bytsyuk: "Oculus Rift "

The presentation deals with the long-expected cutting-edge invention of Oculus Rift, its application in the world of games and expectations connected with it.

*English language consultant: Arina B. Dolya*

## 2. Oleg Khachumov : "Supercomputers "

This presentation will cover the following aspects: architecture of supercomputers; tasks, performed on these machines; supercomputers in Russia (particularly in SFedU) and worldwide; the role of supercomputers nowadays and forecasts for their future development.

*English language consultant: Ksenia A. Borodina*

## 3. Yuriy Ovcharov: "IT- Industry in Russia: Problems and and Solutions"

The IT industry has become an integral part of the modern world. One of the main aims for IT specialists is to get the Russian ICT companies' product onto the market. The ways and means of ensuring competitive IT production will be under discussion.

*English Language Consultant: Dina V. Lavrova*

## 4. Olesya Butsykina: "The Impact of 3D Printing Technology"

Will 3D printing change everything? What our life could be look like in our near future? What impact can 3D printer make to our daily life? This presentation will unveil the most important aspects of this technology.

*English language consultant: Ksenia A. Borodina*

## 5. Fedor Pevnev: "Unsolved problems in mathematics"

Does every problem possess a solution? If yes, how much time does it take to find it? If no, how can we differentiate solvable and unsolvable problems? Let's learn something about unsolved problems of the past and the present in mathematics!

*English language consultant: Natalia M. Uleyeva*

## 6. Anna Berger: "Computer technologies in SOCHI 2014"

The Olympic Games in Sochi 2014 were claimed to be the most innovative in the history of Olympic Games. Let's have a look at the most interesting (and sometimes, ground-breaking) ways of using modern computer technologies in some usual and unusual situations during the first Winter Olympic Games in Russia.

*English language consultant: Elena I. Grushko*

## 7. Fedor Shchitov: "Quantum Computers in Cryptography"

Cryptography is an ancient art that has passed through many paradigms, from simple letter substitutions to polyalphabetic substitutions to rotor machines to digital encryption to public-key cryptosystems. With the possible advent of quantum computers and the strange behaviors they exhibit, a new paradigm shift in cryptography may be on the horizon.

*English language consultant: Natalia M. Uleyeva*