**САРАТОВСКИЙ НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ**

**ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ ИМЕНИ Н.Г. ЧЕРНЫШЕВСКОГО**

**Факультет иностранных языков и лингводидактики**

**Кафедра английского языка и межкультурной коммуникации**

**Биологический факультет**

**Геологический факультет**

**Географический факультет**

**Институт химии**

**Механико-математический факультет**

**Факультет компьютерных наук и информационных технологий**

**Институт физики**

**Экономический факультет**

**VII Научно-практическая конференция**

**для студентов младших курсов**

**«Science Kaleidoscope»**

**16.05.2022 - 20.05.2022**

**Саратов**

**Организационный комитет конференции**

Председатель мероприятия:

– Шилова С.А. - декан факультета иностранных языков и лингводидактики

**Организационный комитет:**

Председатель организационного комитета:

- Сосновская А.А. – доцент кафедры английского языка и межкультурной коммуникации.

Секретарь организационного комитета:

- Павлова О.В. – доцент кафедры английского языка и межкультурной коммуникации.

**Программный комитет:**

Председатель программного комитета:

- Алексеева Д.А. – доцент кафедры английского языка и межкультурной коммуникации.

Секретарь программного комитета:

- Пыжонков С.В. – старший преподаватель кафедры английского языка и межкультурной коммуникации.

Члены программного комитета:

- Боц Т.С. – старший преподаватель кафедры английского языка и межкультурной коммуникации;

- Смирнова А.Ю. – доцент кафедры английского языка и межкультурной коммуникации;

- Сабитова Л.Р. – доцент кафедры английского языка и межкультурной коммуникации;

- Кузьмина С.В. - доцент кафедры английского языка и межкультурной коммуникации;

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| **May 16, Monday** | | |
| **12:00-13.40** | **Panel Discussion: Chemistry** | Building 6, Room 304 |
| **13:50-15:25** | **Panel Discussion: Biology I** | Building 5, Room 9 |
| **15:35-17:05** | **Panel Discussion: Computer Science and Economics** | Building 12, Room 215 |
| **15:35-17:05** | **Panel Discussion: Computer Science and Information Technologies** | Building 12, Room 414 |
| **May 18, Wednesday** | | |
| **10:00-12:00** | **Panel Discussion: Physics & Nanotechnology** | Building 5, Room 17 |
| **15:35-17:05** | **Panel Discussion: IT and Economics** | Building 12, Room 313 |
| **15:35-17:05** | **Panel Discussion: Economics and Finances** | Building 12, Room 125 |
| **15:35-17:05** | **Poster Session: Programming Languages** | Building 12, Room 126 |
| **May 19, Thursday** | | |
| **12:05-13.40** | **Panel Discussion: Geography** | Building 9, Room 406 |
| **13:50-15:25** | **Panel Discussion: Biology II** | Building 9, Room 406 |
| **May 20, Friday** | | |
| **08.20-10.00** | **Panel Discussion: Mathematics 1** | Building 9, Room 201 |
| **10.00-12.00** | **Panel Discussion: Mathematics 2** | Building 9, Room 201 |
| **12:00-14.00** | **Panel Discussion: Geology** | Building 1, Room 53 |

**Panel Discussion: Chemistry (Building 6, Room 304)**

**16 May 2022, 12:00-13.40**

**Time-limit: 7 minutes**

*Chairpersons:*

***Svetlana V. Kuzmina*** *(PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

***Olga S. Ushakova*** *(PhD student, Department of Physical Chemistry, SSU)​*

**Julia** **Kornysheva, Ksenia Shelemetyeva**

*Green Chemistry*

The endless growth of industry is impossible, the world needs new harmless and waste-free technologies. What seemed fantastic 20 years ago – reactions in water, supercritical conditions – is now being implemented at large enterprises. The solution of environmental problems will help research in the field of green chemistry, the development of new environmentally friendly chemical processes.

"Green chemistry" is a scientific direction and philosophy; it is the basis for preserving the environment for the next generations.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Elizaveta Ketrush**

*Methods of Preventing Global Warming*

Global warming is an unusually rapid increase in the average temperature of the Earth's surface over the past century, mainly due to greenhouse gases emitted by people burning fossil fuels. This project looks at some methods to combat global warming - converting the greenhouse gas CO2 into the desired chemical fuel, the use of hydrogen fuel.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Svetlana Mescheryakova**

*Chemistry in Space*

Space science is very often associated with physics. Physicists have asked questions about the origin of the universe and have used their specialized knowledge to make educated guesses about the past, present and future. Mathematics can give information about the speed and direction of objects, distances, mass and momentum. But the chemical component is an important part of space exploration. The main part of the matter of the universe is hydrogen, in second place is helium. However, a wide variety of chemical elements and even complex molecular compounds can be found in space. Astrochemistry studies the processes of formation and interaction of chemical compounds in space. The main tool for obtaining information about the chemical composition of remote objects is spectroscopy.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Ekaterina Fedorova, Daria Guseynova**

*Examples of Radiation in Daily Life*

This project addresses the issue of radiation in everyday life. It tells about all types of radioactive decay from alpha rays with low penetrating power to gamma rays with high penetrating power. In addition, the project presents a list of radioactive elements. The project contains the information about some everyday things that emit radiation, as well as the dosages of this radiation and what danger it poses to human life.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Ekaterina Budnyaya, Evgeniya Karateeva**

*Poisons and Antidotes*

Nowadays, chemists synthesize a large number of substances, so people should know which substances are safe for their health. This report tells about toxicology, classification of poisons, in addition, it tells the story of one of the most famous poisons and how this poison can be detected. There is also information about universal antidotes and their mechanisms of action.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Anna Novitskaya**

*Scented Substances*

Scented substances are organic compounds with characteristic odor, used as odorous components in the production of perfumes, cosmetics, soaps, synthetic detergents, food and other products. Scented substances are of natural and synthetic origin. The production of some natural oils, resins is associated with the extermination of plants and animals, therefore synthetic scented substances are more often used in production, they have the same formula and, accordingly, smell as natural ones. From a chemical point of view, fragrant substances are a variety of marginal, unsaturated, aromatic, aliphatic alcohols, aldehydes, acids, esters. As several formulas can correspond to one smell, so substances similar in structure can differ in smell.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Irina Ivanova, Snezhana Rykalina**

*How does chemistry affect the environment?*

The main environmental problems of the chemical industry have been studied, the harm they do to the environment. Some ways to solve environmental problems are found.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Daria Pridankina, Ksenia Kolarkova**

*A New Method for Creating Promising New Sulphur-Based Medicines*

A key technical challenge in creating new sulphur-based medicines has been overcome, leading to the prospect of many new therapeutic 'weapons' in the fight against disease and illness. Every successful drug has a part of it that physically fits into the exact biochemical pathway it is trying to disrupt. This part of the drug is known as a 'pharmacophore' and generating new ones is a key goal in drug discovery. Sulphur-based pharmacophores are highly versatile and seen as very promising to drug developers but are rare due to the challenges of synthesizing them. Now, scientists have designed a method to generate sulphur pharmacophores using a catalyst specially developed by the scientists themselves, known as pentanidium. Their method could be used to synthesize a broad range of new pharmacophores that could be paired with different types of molecules to form new drugs.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Roman Butin, Egor Kormilitsin**

*The Composition of Coca Cola*

We have studied the composition of Coca Cola, the positive and negative effects of individual constituents such as sugar and caffeine. Unusual facts, calorie content and the main composition of the drink are presented.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Makar Shentsev, Alexander Regnier**

*Catalysts in Green Chemistry*

This report is about the use of catalysts in green chemistry. Economic and environmental benefits of catalytic synthesis are discussed.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Panel Discussion: Biology I (Building 5, Room 9)**

**16 May 2022 13:50-15:25**

**Time-limit: 7 minutes**

*Chairpersons:*

***Svetlana V. Eremina*** *(PhD in Pedagogics, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

***Aleksandr S. Belikov*** *(Postgraduate Student, Engineer, Department of Botany and Ecology, SSU)*

***Antonina S. Dymnich*** *(Postgraduate Student, Assistant, Department of Microbiology and Plant Physiology, SSU)*

**Denis Tarasov**

*Eukaryotic system*

How many kingdoms of living nature are there in the world? This is an old question that is asked to any student. Some will say that there are four or three of them, someone will think about viruses and there will be more of them. However, the modern scientific community believes that there are either too many kingdoms or none at all. The modern system differs from the traditional school system.

*(Scientific Advisor: Svetlana V. Eremina, PhD in Pedagogics, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Georgiy Yagodkin**

*Jersey Zoo*

This paper deals with the history of the Jersey Zoo and its current state. It draws our attention to such topics such as the biography of Gerald Durrell (the founder of the zoo), the process of creating the zoo, the current inhabitants of the zoo. The researcher concludes that it is necessary to create zoos not only as places of entertainment, but as places of animal conservation.

*(Scientific Advisor: Elena V. Tiden, Senior Lecturer, Department of English and Intercultural Communication, SSU)*

**Irene Vakhneyeva**

*The problem of infertility*

This paper briefly discusses the topic of infertility. It explains the nature of infertility in both women and men, its causes and possible treatment.The purpose of this paper is to raise awarness of this condition and enlightning public on the matter.

*(Scientific Advisor: Elena V. Tiden, Senior Lecturer, Department of English and Intercultural Communication, SSU)*

**Matvey Nikelshparg***Raman spectroscopy to study insects*

In the present study we applied Raman spectroscopy to find out whether the plant Hieracium x robustum is the only source of carotenoids in insect Aulacidea hieracii feeding on that plant. Carotenoid composition in the insect larva was independent of that in the plant tissues. Also we discovered that carotenoid accumulation in the insects is segment-specific and differs in larva and pupa. Thus, the insect Aulacidea hieracii is suggested as a new candidate among animals to have the ability to synthesize and modify carotenoids.

*(Scientific Advisor: Tatyana S. Bots, PhD in Linguistics, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Sergey Gubanov**

*Viruses*

What are viruses? What happens to the virus when it enters the body? Is there a real way to protect yourself? Every person should ask these questions in order to correctly understand the threat that the world is facing. This and many other things are discussed in the presentation.

*(Scientific Advisor: Svetlana V. Eremina, PhD in Pedagogics, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Shchigolev Ilya**

*A brief excursion into the Lovecraftian pantheon*

The audience will be told about the pantheon of dark gods created by the American writer Howard Phillips Lovecraft. The report provides brief insight into elder and younger gods, their guises, abilities and activity.

*(Scientific Advisor: Tatyana S. Bots, PhD in Linguistics, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Panel Discussion: Computer Science and Economics (Building 12, Room 215)**

**16 May 2022, 15:35-17:05**

**Time-limit: 7 minutes**

*Chairpersons:*

***Dina A. Alexeeva*** *(PhD in Linguistics, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

***Nikita A. Barabanov*** *(postgraduate student, Faculty of Computer Science and Information Technologies, SSU)*

***Alyona O. Guljaeva*** *(postgraduate student, Faculty of Mechanics and Mathematics, SSU)*

**Ruslan Khamazaev**

*Data is the new oil*

With the swift rise of the Internet, the number of free online resources has skyrocketed. Nowadays, life without Wi-Fi is barely thinkable. Each day we start and finish with a glance on our smartphones, we chat, google and listen to music, everything without any paying. Unaware to us, those companies collect large amounts of our data, which they in turn use for the profit. Does it mean that by signing up privacy policy terms, we inadvertently sell a part of our identity? How can we keep our privacy in the incredibly connected world that we are living in? These and other questions regarding surveillance are the main problems of my research.

*(Scientific Advisor: Svetlana A. Kosareva, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Artemi Melnikov**

*What are neural networks, how do they work and where are they used?*

Neural networks are often perceived as some kind of innovative technology, part of the world of the future, unexplained for people far from programming The article describes what neural networks are, how such a tool works, for which tasks it is best suited and in which areas it will be in demand in the near future.

*(Scientific Advisor: Maria V. Ukolova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Dmitry Mitin**

*What is RPA? A revolution in business process automation*

The article deals with the concepts of the robotic process automation. It describes business benefits of using RPA systems. In addition, this paper defines the fields of implementing a robotic automation. In addition, the paper analyzes companies that use RPA.

*(Scientific Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Aida Zhumasheva**

*The impact of e-commerce on the Russian environment*

The article describes what e-commerce is, highlights the causes of the negative impact of e-commerce on the environment and suggests ways to solve them.

*(Scientific Advisor: Dina A. Alexeeva, PhD in Linguistics, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Olesya Dormidontova**

*The quality management system in HR Department*

The article deals with the problem of management system in HR Department. The quality management system is part of the overall management system of a company functioning to ensure the stable quality of products or services. The article describes the main features of modern production and the way that quality management system influences it.

*(Scientific Advisor: Lareena R. Mikhralieva, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Kirill Nazarov**

*Security issues with two-factor authentication*

The article discusses the ways to build two-factor authentication. It describes the work of two-factor authentication technology. In addition, the article presents a method by which two-factor authentication can be hacked.

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Kirill Tikholoz**

*What are web crawlers? How do web spiders work?*

The article deals with the concept of web crawling and web spiders. It describes the way web crawlers work. In addition, this paper considers active crawler bots on the Internet. In addition, the paper analyzes the importance of web crawling for bot management.

*(Scientific Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Maksim Yashin**

*What is computer piracy and why it should be avoided*

The article tells about the problem of computer piracy today. It touches upon the origin of the issue and its evolvement over time. The varieties of computer piracy and its danger for ordinary users are mentioned.

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Nikita Smetankin**

*What are malware and anti-malware algorithms?*

This article discusses the concepts of malware. It describes how they are classified and work. In addition, the article presents a way to counteract them. The article also talks about their types in the future.

*(Scientific Advisor: Maria V. Ukolova, Lecturer, Department of English and Intercultural Communication, SSU)*

**Panel Discussion: Computer Science and Information Technologies (Building 12, Room 414)**

**16 May 2022, 15:35-17:05**

**Time-limit: 7 minutes**

*Chairpersons:*

***Lareena R. Mikhralieva*** *(Lecturer, Department of English Language and Intercultural Communication,**SSU)*

***Anna A. Kazachkova*** *(postgraduate student, Faculty of Computer Science and Information Technologies, SSU)*

***Vladimir S. Petrov*** *(postgraduate student, Faculty of Computer Science and Information Technologies, SSU)*

**Artyom Petrichenko**

*What is user centered design?*

The article deals with the basic concepts of user-centered design. It analyzes the process of creating user-centered design for any kind of web-sites. Also, the article considers advantages of using user centered approach in making user experience for building effective business.

*(Scientific Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Viktoria Romanova**

*How to style websites?*

The article deals with the web design in IT field. It describes the main principles of digital design. Also the article considers the importance of styling such web-elements like typography, graphics and etc. In addition, the paper presents a process of making UX/UI design in a software development cycle.

*(Scientific Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Roman Stain, Anastasia Levashkina, Nikolai Shustov**

*Little history of CAPTCHA*

The article deals with an established term on the Internet as a captcha. It describes the history of captcha development, its types and, in conclusion, the problem of captcha and predictions about its possible future.

*(Scientific Advisor: Lareena R. Mikhralieva, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Nikolay Shashkov**

*About eBooks*

The article deals with eBooks and their characteristics. It describes the eBooks technology itself as well as its advantages of using. In addition, the paper presents the most popular formats of eBooks. In addition, the article considers how eBooks are distributed.

*(Scientific Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Danila Viltsev**

*What is recommendation system and how does it work?*

This article tells about the main idea of recommendation engine. It describes three methods for creating such a system. In addition, the article shows the creation steps of this recommendation engine.

*(Scientific Advisor: Maria V. Ukolova,* *Lecturer, Department of English Language and Intercultural Communication, SSU*)

**Nikita Kuzyakin**

*Browser game development*

The article deals with the concepts of browser games. What you need to know to create a browser game. In addition, tools for creating a browser game ans tips for novice developers..

*(Scientific Advisor: Ekaterina A.Fefelova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Elizaveta Chechetka**

*Behind the scenes: how a chatbot works*

The article deals with the virtual assistant concept. It describes how a chatbot technology works. In addition, the paper presents three main types of chatbots: rule-basef, intellectually independent and AI-powered. Also, the article considers the efficiency of using chatbots in business.

*(Scientific Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Elena Yezhova**

*What are voice assistants all about?*

The article deals with the basic concepts of voice assistant technology. It analyzes the history of voice assistants and describes the technology behind them. In addition, the paper considers the different voice assistant approaches: task-oriented and knowledge-oriented.

*(Scientific Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Panel Discussion: Physics & Nanotechnology (Building 5, Room 17)**

**18 May 2022, 10:00-12:00**

**Time-limit: 7 minutes**

*Chairpersons:*

***Sergey V. Pyzhonkov*** *(Senior Lecturer, Department of English and Intercultural*

*Communication, SSU)*

***Anton A. Dyachenko*** *(PhD student, Department of Optics and Biophotonics, SSU)*

**Daria Semenova, Veronika Prokhorova**

*Tumor Treating Fields: a New Frontier in Cancer Therapy*

Tumor treating fields (TTFields) is a noninvasive, regional antimitotic treatment modality that has been approved for the treatment of recurrent glioblastoma. TTFields therapy delivers low-intensity (1–3 V/cm), intermediate-frequency (100–300 kHz), alternating electric fields to the tumor using transducer arrays placed on the skin around the region of the body containing the tumor.

*(Language Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Alina Shamarina, Timofei Dumov**

*Dzhanibekov Effect*

The asymmetric spinning top is considered to be one of the hardest concepts in Physics. The T-handle is initially spun about the principal axis with intermediate moment of inertia, which is not stable. The result is that the axis reverses repeatedly. This particular behaviour has recently been dubbed the «Dzhanibekov effect» after the Soviet cosmonaut Vladimir Dzhanibekov, who demonstrated it in space in 1985.

*(Language Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Vera Zabelina, Danila Vasiliev**

*Combining Artificial Intelligence with Physics-Based Methods For Probabilistic Renewable Energy Forecasting*

By 2023 the Internation Energy Agency (IEA) projects that wind and solar photovoltaik (PV) will grow to account for 6% and 4% of global electricity production, respectiveli. Certain markets already include higher penetrations of renewable energy. Kuwait Renewable Energy Prediction System (KREPS) is designed to predict wind and solar PV energy output from Shagaya at 15 - min intervals out to several days to be used for grid integration within Kuwait.

*(Language Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Damir Rahmetov, Daniil Maksimov**

*Integrated Magnetics and Magnetoelectrics for Sensing, Power and Microwave Electronics*

The report provides an overview of magnetism and the development of magnetoelectric devices. The prospects and the direction of the future research will be discussed.

*(Language Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Sergey Zaharov**

*What is a Fractal?*

Recently researchers have shown an increased interest in Fractals. Since the term is becoming more widely used we wanted to provide an overviuw of what Fractals are, why Fractals are important, and how Fractals impact our lives.Fractals are widely wed in Physical. From ed, self-similarity and origin symmetry are shown to be the key geometric constraints in the determination of frequency independent properties of antennae. Fractal antennae with origin symmetry meet these criteria of the extended version of Rumsey's principle.

*(Language Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Dmitriy Petrov**

*The Essence of the External Photoelectric Effect*

The external photoelectric effect is called the phenomenon of emission or the phenomenon of electron emission from the surface of a substance under the action of light. Principle of effect operation: if electromagnetic radiation is directed to the surface of the cathode of an electron lamp, for example, a diode, then the electrons knocked out by photons fly out of the cathode and enter the electric field. The purpose of my work is to study the main patterns of external photoelectric effect, experimentally investigate the dependencies photocurrent on the value of the anode voltage, photocurrent saturation from luminous flux, delay voltage on the frequency of the light incident on the cathode of the photocell.

*(Language Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Ekaterina Kudryashova**

*Making New Fabric from Old Textiles*

Nowadays the issue of recycling old textiles, which represent a big environmental problem, has received considerable attention. Scientists have developed a way to convert cotton into sugar, which, in turn, can be turned into spandex, nylon or ethanol. It is a promising area for future research.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Roman Mescheryakov**

*Body Modifications: the History and the Future*

For centuries, people have been using prosthetics in order to replace lost limbs. They have been constantly improving, and today scientists are trying to understand if prosthetic limbs can be even more effective than the natural ones.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Kristina Chernozubkina, Polina Popova**

*Humanoid-Sensing Robots: Developing Remote Healthcare*

Blood pressure monitoring is an essential medical diagnostic tool for many chronic diseases and overall good health. The use of sensing robots in medical healthcare systems has advantages because they can assist health care workers in monitoring patient vital signs while creating a friendly environment for those patients who may need to be isolated.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Artyom Gres**

*Photodynamic Therapy of Oncology*

The following things are taken into consideration: when the photodynamic therapy was discovered, the general information about photodynamic therapy, the principles of the photodynamic therapy and the ways of its realization.

*(Scientific Advisor: Sergey V. Pyzhonkov,**Senior Lecturer, Department of English and Intercultural Communication,**SSU)*

**Inna Reskalenko**

*Radiation and Human Health*

The article describes the main ways of exposure to radiation on the human body, which are natural, planned (in medicine or in the enterprise) or accidental.Special attention is paid to the most common artificial sources of radiation – X-ray machines, which are used for diagnostics or radiation therapy.

Attention is drawn to the fact that the risk of adverse consequences for human health depends on the dose of radiation.

*(Language Advisor: Svetlana V. Eremina, Ph.D. in Pedagogics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Panel Discussion: IT and Economics (Building 12, Room 313)**

**18 May 2022, 15:35-17:05**

**Time-limit: 7 minutes**

*Chairpersons:*

***Olga V. Pavlova*** *(PhD in Education, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

***Bogdan A. Terebin*** *(postgraduate student, Faculty of Computer Science and Information Technologies, SSU)*

***Viktor N. Kutin*** *(postgraduate student, Faculty of Computer Science and Information Technologies, SSU)*

**Aleksandra Saiapina**

*Artificial intelligence*

The article deals with the types and methods of artificial intelligence. It focuses on the spheres where it is used. The author notes the ways the creation of perfect AI can affect the humanity.

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Bogdan Ustyushin**

*Dark side of social media*

The article is about social media different details. Specifically, it touches on how Internet and gadgets affect people’s mental health, their habits and wishes. Author describes mostly negative effects of social media and reminds people that Internet is a very powerful tool, which can be used in a harmful way. The conclusion leaves the reader with the question being difficult to answer for any person today: “Is Internet destructive or not?”

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Artyom Arzumanyan, Polina Piontkevich**

*Contradiction of globalization*

At the beginning of the third millennium, the issue of globalization has become one of the most discussed topics. Along with the advantages of the integration process, global problems arise. These are the problems of our entire planet. In order to solve them the efforts of the whole world community and joint actions of all countries and states are necessary. That is why in our report we analyze globalization, its manifestations in various fields and consequences.

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Anastasia Popova, Rumiya Fadeikina**

*Perspectives of Russia on the way to the sixth technological paradigm*

The article is devoted to the analysis of Russia's prospects in the movement towards a new technological order. The problems in the way of the national economy are considered.

*(Scientific Advisor: Svetlana A. Kosareva, Senior lecturer, Department of English Language and Intercultural Communication, SSU)*

**Andrey Gradusov**

*Women in IT*

The article deals with the problem of women influence on IT industry and their participation in its development. The author makes the effort to redefine the role of women in this sphere.

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Alexander Grazhdanov**

*How to make a computer game*

The article about development process of a computer game. It describes how concepts and outlines become the real indie-game project. In addition, the paper contains conclusions, which I got about game-design in the development process of my project (https://alexkircher.itch.io/rgbpuzzle). In addition, the article considers a post-production phase of project and self-promotion on the Reddit.

*(Scientific Advisor: Elena V. Karpets, PhD in Culturology, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Panel Discussion: Economics and Finances (Building 12, Room 125)**

**18 May 2022, 15:35-17:05**

**Time-limit: 7 minutes**

*Chairpersons:*

***Svetlana A. Kosareva*** *(Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

***Anton A. Lebedev*** *(postgraduate student, Faculty of Computer Science and Information Technologies, SSU)*

***Ruslan A. Kolomejtsev*** *(postgraduate student, Faculty of Economics, SSU)*

**Alexander Ryabinin, Vladislav Fedotov**

*Role of banks in the economic development of a country*

The article studies the role of banks in the development of the country's economy, modern ideas about the essence of banks, the specifics of the bank as an enterprise.

*(Scientific Advisor: Svetlana A. Kosareva, Senior lecturer, Department of English Language and Intercultural Communication, SSU)*

**Darya Guseva, Diana Badalyan**

*U.S. banking system*

The article considers the system of structure and hierarchy of banks in America and analyzes the functions and tasks performed by each of them.

*(Scientific Advisor: Svetlana A.Kosareva, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Leila Radzhabova, Zani Lyazgiyan**

*The role of the state in the Russian economy*

In this article, we consider models of state economic policy, economic functions of the state, and types of intervention in the economic sphere*.*

*(Scientific Advisor: Svetlana A. Kosareva, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Andrey Turkin, Ruslan Gamidov**

*The impact of cryptocurrency on the economy*

The article studies the impact of cryptocurrencies on the economy. The economic, environmental and energy risks of cryptocurrencies are considered.

*(Scientific Advisor: Svetlana A. Kosareva, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Yana Dobrodomova, Arina Kurapova**

*Financial crime*

The article considers a financial crime that is a crime committed against property, associated with the illegal conversion of ownership of property for personal use and benefit. Financial fraud is a dangerous phenomenon, everyone can face it, so it is important to be able to avoid it. Therefore, the article offers ways to combat financial fraud.

*(Scientific Advisor: Svetlana A. Kosareva, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Ksenya Shevchenko, Svetlana Cherkasova**

*Mavrodi financial pyramid*

This article is about the largest financial pyramid in the history of Russia in terms of the number of victims and damage, the technique of influencing people used by Sergei Mavrodi and the reasons for its success.

*(Scientific Advisor: Svetlana A. Kosareva, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Panel Discussion: Geography (Building 9, Room 406)**

**19 May 2022, 12:05-13.40**

**Time-limit: 7 minutes**

*Chairpersons:*

***Svetlana V. Kuzmina*** *(PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

***Liliya R. Sabitova*** *(PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

***Vsevolod I. Miroevskiy (****Master Degree student, Department of Geomorphology and Geoecology, SSU)*

**Anastasia Ageeva, Sofia Sazonova**

*Bird population maps*

This report regards geographic maps as a tool for predicting the diversity of endangered birds, as well as for tracking migratory birds. The purpose of the work is to consider the usefulness of maps in overcoming various problems of bird species conservation in certain areas and to present specific situations that characterize maps as a way to collect, store and analyze information.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Anton Serdyukov, Anton Kuckosh**

*Characteristics of the Winter Period in the Saratov Region for 2010-2020*

Based on long-term data for 2010-2020 climatograms were built for the stations of the Saratov region, allowing to analyze and characterize the conditions of the winter period. Analysis of these climatograms suggests that every year there is a tendency of increasing the average monthly temperature.

*(Scientific Advisor: Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Ekaterina Lebedeva, Angelina Oleneva, Ekaterina Cherpinskaya**

*The influence of earthquakes on landscape*

Earthquakes are a rare factor in some people's lives, but there are specific areas on the planet where they are commonplace. Earthquakes can have tremendous power and cause incalculable disasters in many places.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Sergey Kuznetsov, Artem Kusov**

*Volcanoes and their impact on the environment*

Volcanoes are a complex phenomenon with a lot of varieties. This report deals with the influence of volcanoes on the ecology, landscape and attempts to predict what can be done to avoid harmful consequences of eruptions.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Alina Petrova, Elena Sorokina**

*Bioclimatic Attraction of Saratov in Winter*

Weather and climatic conditions is the most important environmental factor, which largely determines the conditions for comfortable living, lifestyle and human activities throughout their life. The importance of weather and climate for health is especially great: according to some scientists, the contribution of weather and climate features to the state of human health is about 20%. The main objectives of this work are to carry out calculations and analyze the calculated data. And also, according to the analysis, to determine how attractive it is to live in Saratov in winter. Thus, the comparison has been carried out according to 2 bioclimatic indices: Bodman and Siple.

*(Scientific Advisor: Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Anastasia Sivasheva, Valeria Mironiuk**

*Red snow phenomenon and how to predict it*

Red snow, or watermelon snow, is a unique phenomenon caused by a special type of bacteria. It can darken glacier surface and play a significant role in global melting.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Panel Discussion: Biology II (Building 9, Room 406 )**

**19 May 2022 13:50-15:25**

**Time-limit: 7 minutes**

*Chairpersons:*

***Tatyana S. Bots*** *(PhD in Linguistics, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

***Aleksandr S. Belikov*** *(Postgraduate Student, Engineer, Department of Botany and Ecology, SSU)*

***Efimova Daria*** *(Postgraduate Student, Engineer, Department of Botany and Ecology, SSU)*

**Andrey Mosalev**

*Plasmids as the most important factor in the adaptability of bacteria*

The article is devoted to bacterial plasmids, their structural features, types of plasmids, as well as their role in adaptability to different conditions and rapid evolution of bacteria. The author provides strong evidence that the study of plasmids and experiments on them are one of the most promising and important works in microbiology and medicine. In conclusion, the author summarizes that plasmids are one of the most important structures influencing the vital activity of bacterial cells and entire populations.

*(Scientific Advisor: Elena V. Tiden, Senior Lecturer, Department of English and Intercultural Communication, SSU)*

**Anzhelika Martynenko, Viktoriya Semenova**

*About Blood*

As the title implies, the article describes blood. It draws our attention to blood functions, blood groups, blood structure, blood transfusion etc. At the end of the article the author provides a description of diseases of blood.

*(Scientific Advisor: Elena V. Tiden, Senior Lecturer, Department of English and Intercultural Communication, SSU)*

**Diana Borovskaya, Margarita Borovskaya**

*Deciphering the human genome through the decades*

The human genome is more than just a sequence of genes, it is like a very long manuscript in an unknown language that scientists have been studying for many years. But what is the complexity of deciphering and why scientists could not solve one of the greatest mysteries of mankind for decades?

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Dmitry Golubev, Valeria Streltsova**

*Genetics of obesity*

The article deals with the global epidemic of obesity. It describes recent developments in genetic epidemiologic research, focusing particularly on several promising genomic regions and obesity-related genes. In addition, the paper presents gene-gene and gene-environment interactions of obesity. Also, the article considers the increasing burden of type 2 diabetes, cardiovascular disease, stroke, some types of cancer, and premature death worldwide.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Daria Luchkina, Oleinikov Anton, Valeria Takaishvili**

*Structure and function of the main component of the cell wall of Gram-negative bacteria - lipopodisaccharide (LPS)*

The protective function of the outer membrane of gram-negative bacteria depends on lipopolysaccharide, which is a complex glycolipid.  This article  briefly outlines the structure of lipopolysaccharide and tells about the functions of this molecule.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Matvey Tuzhilkin**

*At the down of evolution: the origin of the DNA and its copying system*

The paper  is based on some sections of Mikhail Nikitin's book "The Origin of Life". As the title of it implies, the one of chapters describes the structure of genomes, the mechanisms of copying and the origin of DNA. The author goes into the causes the transition of living organisms from RNA to DNA as a carrier of hereditary information, and also considers the evolution of DNA copying mechanisms. The chapter is of interest to all those interested in the development of life in the early stages of evolution.

*(Scientific Advisor: Elena V. Tiden, Senior Lecturer, Department of English and Intercultural Communication, SSU)*

**Vadim Solyannikov**

*Chitons of the Black Sea*

The paper is concerned with chitons of the Black Sea. Firstly, the author provides an explanation of chitons structure. Secondly, it gives an analysis of consortium.  Thirdly, the author goes on to describe its habitat.

*(Scientific Advisor: Elena V. Tiden, Senior Lecturer, Department of English and Intercultural Communication, SSU)*

**Zhulina Kseniya**

*The Importance of Vitamins in Human life*

The paper is concerned with the variety of vitamins that support homeostasis in the body and their importance for human health. It draws our attention to how important  it is to take care of elements in it as mood and physical  condition directly depend on it. At the end of the paper the author sums up that vitamins are an integral part of metabolism, which must be constantly replenished.

*(Scientific Advisor: Elena V. Tiden, Senior Lecturer, Department of English and Intercultural Communication, SSU)*

**Panel Discussion: Mathematics 1 (Building 9, Room 201)**

**20 May 2022, 8.20-10.00**

**Time-limit: 7 minutes**

*Chairpersons:*

***Svetlana V. Kuzmina*** *(PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

***Liliya R. Sabitova*** *(PhD in History, Associate Professor, Department of English and Intercultural Communication, SSU)*

***Anna Yu. Smirnova*** *(PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

***Anna A. Sosnovskaya*** *(PhD in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

***Evgenii A. Ivanov*** *(Postgraduate student, Faculty of Mathematics and Mechanics, SSU)*

**Arutiun Ananov, Nikita Bulatov, Elena Yoskina, Vladislav Pavliukovich** (poster)

*Java*

Java is one of the most popular programming languages used to create Web applications and platforms. It was designed for flexibility, allowing developers to write code that would run on any machine, regardless of architecture or platform.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Roman Biriukov, Vadim Vedeneev**

*Unreal Engine 5: playing computer games in a more realistic world*

The report deals with the new abilities Unreal Engine 5 introduced into the gaming world. The new version of the popular game engine has received numerous improvements for game creators - from increased performance and editor interface to a set of technologies aimed at adding photorealism to game scenes.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Andrew Gnatyuk, Olga Martiushenko, Vadim Narvatov**

*Smart contracts*

Smart contracts are digital information transfer protocols based on blockchain technology that use mathematical algorithms to automatically execute a transaction after the specified conditions are met and complete control over the process.  With this technology, people will be able to make various transactions without the participation of intermediaries, while remaining completely anonymous.

*(Scientific Advisor: Anna Yu. Smirnova, PhD in Literature, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Marina Kazeeva, Sofia Serezhkina**

*Virtual Private Network*

The main object of the work is the app called VPN. VPN stands for "Virtual Private Network" and describes the opportunity to establish a protected network connection when using public networks by encrypting internet traffic. This has gained particular relevance recently due to the development of e-commerce, more frequent use of payment for services via the Internet, intensive communication between people in different parts of the Web. In the countries where authorities tend to block popular Internet resources VPN is also in high demand. Here arises a question about legality of using VPN. Thus, in China only state-owned VPNs are legal: such local services receive a license from the authorities.

*(Scientific Advisor: Anna Yu. Smirnova, PhD in Literature, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Anastasia Konnova**

*Information system for selling final products*

The main objective of this work is to create a software product adapted for using in a specific subject area and meeting the needs of clients. The components of the company's automated system are goods, buyers and deals. To achieve the goal, the developed software package must perform a number of tasks.  The designed information system  works with xml-files and SQL databases.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Alena Kozlova**

*An easier way to teach robots new skills*

Researchers have developed a technique that enables a robot to learn a new pick-and-place task with only a handful of human demonstrations. This could allow a human to reprogram a robot to grasp never-before-seen objects, presented in random poses, in about 15 minutes.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Zhanna Kurynova**

*Who wants to be a millionaire?*

You do not need to buy a lottery ticket or rob a bank to do this.  The Clay Mathematical Institute in the USA is ready to gladly pay a million to those who simply solve at least one of their mathematical tasks.  It sounds so simple that you are already ready to sketch out the solution to any of them, but even the formulation of these tasks causes difficulties.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Denis Lipilin**

*Using Mathematics to Forecast the Spread of Infectious Diseases*

The COVID-19 pandemic has led to significant changes in how people are currently living their lives. To determine how to best reduce the effects of the pandemic and start reopening communities, governments have used mathematical models of the spread of infectious diseases.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Pavel Lukianov**

*Initial and boundary conditions in the theory of differential equations*

The main differential equation that specifies its behavior at the initial moment of time or at the boundary of the region under consideration is defined. Usually a differential equation doesn't have one solution, but a whole family of them. The initial and boundary conditions allow choosing one solution that corresponds to a real physical process or phenomenon.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Alexandra Mardeeva**

*Solving the Monty Hall Problem with Bayes Theorem or How Your Intuition Can Lose Your Money on Gameshows*

This project contains a summary of the probability theory that is needed for the solution of the Monty Hall problem, such as conditional probability, independent events. Interesting examples of Bayes Theorem are presented. A detailed solution of the problem is given.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Oleg Pavlenko**

*Website development*

Website development is a catch-all term for the work that goes into building a website. This includes everything from markup and coding to scripting, network configuration, and CMS development. While web development typically refers to web markup and coding, website development includes all related development tasks, such as client-side scripting, server-side scripting, server and network security configuration, eCommerce development, and content management system (CMS) development.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Vladislav Pavliukovich**

*Extreme lithography and why it is so expensive*

The report deals with the technology which actually “built” our modern world. Due to extreme lithography, we can enjoy using our gadgets and make scientific progress pace faster.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Alina Shevchenko, Elena Vlasova**

*The Effectiveness and Benefits of Mobile Applications*

This report is about the effectiveness and benefits of mobile applications for the user and entrepreneur. A study was conducted on the revenue growth of several companies before and during the pandemic and how the availability of mobile applications for these companies contributed to this.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Polina Shevtsova**

*Cyberballet: the new life of the old art*

The theatre nowadays is a sphere that faces a great challenge. Due to the quick development of cinema, the theatre can sometimes seem “grandparents’ entertainment”. In order not to lose spectators and continue being attractive, it has to look for ways to be revived and modernized with the help of new technologies.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Ivan Ushakov**

*Complex Numbers Done Right*

This report is about complex numbers. Complex numbers have numerous applications in various fields of applied math and physics. The report proposes geometric interpretation of complex numbers and operations on them.

*(Scientific Advisor:* *Svetlana V. Kuzmina, PhD in Sociology, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Panel Discussion: Mathematics 2 (Building 9, Room 201)**

**20 May 2022, 10.00-12.00**

**Time-limit: 7 minutes**

*Chairpersons:*

***Tatyana S. Bots*** *(Senior Lecturer, Department of English and Intercultural Communication, SSU)*

***Angelina I. Matyashevskaya*** *(PhD in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

***Liliya R. Sabitova*** *(PhD in History, Associate Professor, Department of English and Intercultural Communication, SSU)*

***Anna A. Sosnovskaya*** *(PhD in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

***Evgenii A. Ivanov*** *(Postgraduate student, Faculty of Mathematics and Mechanics, SSU)*

**Dmitriy Andrusiak**

*Dota 2 information bot: increase your chances to win!*

This report is about how the author created the parsing Dota 2 Telegram bot. This bot can help people who want to win games understand ingame meta and pick strong heroes with high win rate.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Alena Bannikova**

*Perelman's proof of the Poincare conjecture*

The Poincare conjecture was proposed by mathematician Henri Poincare in 1904 . Throughout the 20th century it was regarded as a key problem in topology. Poincare claimed in 1900 that homology, a tool he had devised, was sufficient to tell if a three-dimensional manifold was a three-dimensional sphere. Perelman proved this mathematically 100 years later.

*(Scientific Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Elizaveta Baryshnikova, Elizaveta Diplomatova, Viсtoria Kovalenko** (poster)

*Python*

Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis. Python is a general-purpose language, meaning it can be used to create a variety of different programs and isn't specialized for any specific problems.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Nikita Dmitriev**

*History of Intel processors’ development*

The report focuses on the history of the Intel processors development since the 1960s to our time. The central processor is one of the important components of our computer. Due to the processor, there is information processing using arithmetic and logical operations.

*(Scientific Advisor: Tatyana S. Bots, PhD in Linguistics, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Marat Dzhemankulov, Grigorii Sergienko, Antonina Shikalova, Maxim Volodin** (poster)

*Kotlin*

Kotlin is a general purpose, free, open source, statically typed “pragmatic” programming language initially designed for the JVM (Java Virtual Machine) and Android that combines object-oriented and functional programming features. It is focused on interoperability, safety, clarity, and tooling support.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Alina Grishanova, Grigorii Nikolaev, Ksenia Stepkina** (poster)

*C#*

C# is a modern, object-oriented, and type-safe programming language. C# enables developers to build many types of secure and robust applications that run in . NET. C# has its roots in the C family of languages and will be immediately familiar to C, C++, Java, and JavaScript programmers.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Darya Guryanova, Elizaveta Meshcheryakova**

*A man-in-the-middle (MITM) attack*

There are many types of security threats that attackers can use to exploit insecure applications. Threat actors can run some of these attacks using automated software, while others require a more active role from attackers. The research explains the basic idea behind a man-in-the-middle (MITM) attack, providing examples and mitigation techniques.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Anna Kulikova**

W*hat is Bitcoin?*

Bitcoin, often described as a cryptocurrency, a virtual currency or a digital currency – is a type of money that is completely virtual. Bitcoins are valuable because people are willing to exchange them for real goods and services and even cash. Although all transactions are recorded, nobody would know which ‘account number’ was yours unless you told them. Bitcoin makes it possible to transfer value in a very easy way and allows you to control your money, but your wallet as in real life must be kept secure.

*(Scientific Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Aleksey Mamonov**

*Perfect shapes in higher dimension*

This report is devoted to Platonic solids and regular polyhedra in higher dimensions. Using a simple example, the report provides a proof why there are only six Platonic bodies. The way regular polyhedra look in different dimensions and how to build them is shown.

*(Scientific Advisor: Tatyana S. Bots, PhD in Linguistics, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Kirill Martynov, Alexander Zhurlov**

*Artificial intelligence and its applications*

The article compares human performance and artificial intelligence. It describes the strengths of AI and the flexibility of its application. The article underlines the advantages of artificial intelligence in production and in various areas of human activity.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Daniil Nikiforov**  
*Programming and its importance in the modern world*

The report reveals what programming is. It provides information on what programming languages ​​are relevant today and why programming is needed in the modern world.

*(Scientific Advisor: Tatyana S. Bots, PhD in Linguistics, Senior Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Alena Pavlova, Ekaterina Toma**

*Front-end and Back-end development*

The article is constructed on comparison of two ways of web-development that shows many differences in front-end and back-end development and their interconnection. Frontend and backend development are closely related and cannot exist separately. However, these are completely different areas of programming, both in terms of the type of tasks performed and in terms of general purpose.

*(Scientific Advisor: Anna A. Sosnovskaya (PhD in Linguistics, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Miroslav Potapov**

*Python*

The report provides an overview of Python IDE, creator, advantages and disadvantages, Python variety, Zen of Python and a short guide on how to become a Python programmer.

*(Scientific Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Ilia Stupnikov**

*Machine learning becomes a mathematical collaborator*

Mathematicians often work together when they're searching for insight into a hard problem. In two new results, the role of human collaborator has been replaced in part by a machine. This is often done using a machine learning approach called supervised learning in which researchers teach the computer to make predictions by giving it many examples. Researchers at Deep Mind developed a data set with over 2 million knots. For each knot, they computed different invariants. Then they used machine learning to search for patterns that tied invariants together.

*(Scientific Advisor: Angelina I. Matyashevskaya, Ph.D. in Linguistics, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Maksim Volodin**

Profession – Esports Player

Do you have a child who says to you that he/she wants to be an esports player? Or maybe you are an old child who still wants it? Even if esports has never been your dream, this report can help you to see another side of this profession. Do esports players need only to play video games, give interviews about their achievements and spend their money? Can anyone be an esports player? And can anyone earn good money? This work is an attempt to recieve answers to all these questions from a popular esports player.

*(Scientific Advisor: Liliya R. Sabitova, PhD in History, Assoc. Prof., Department of English and Intercultural Communication, SSU)*

**Panel Discussion: Geology (Building 1, Room 53)**

**20 May 2022, 12:00 -14.00**

**Time-limit: 7 minutes**

*Chairpersons:*

***Anna Yu. Smirnova*** *(PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

***Anatoly A. Fonin*** *(Postgraduate Student, Assistant Lecturer, Department of Geophysics, SSU)*

**Marat Abdryaev, Denis Maksimov**

*Metamorphism*

Basic information about metamorphism is given. The types of metamorphism are discussed. In addition, the stages and facies of metamorphism and the conditions for their formation are mentioned.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Olga Afrosina, Аminat Aliyeva**

*Rocks, minerals and minerals*

The paper describes the concept of a mineral, as well as by what properties they are separated.  And also it is impossible not to say what role minerals play in one of the most interesting areas of art.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Elsiyara Bakhtigereeva**

*Natural Monuments of Geology*

In this report some interesting information about several geological monuments of Russia is presented, including Saratov sights, such as Amazonite Mountain, "Three Monks", "Snake Mountain" and others.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Shamil Dalgatov, Georgy Kropotin, Ilya Simachenko**

*Types of folds*

Our work is devoted to showing what kinds of folds are classified in geology and their difference. Folds are the foundation of the geological realm.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Anastasia Gorbacheva, Alsu Zhukusheva**

*Groundwater*

Basic information about groundwater is reported. Various classifications of groundwater are available for viewing. And information about the state of water "water plasma" is also mentioned.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Daria Ilyukhina, Sergey Verbitsky**

*Earthquake*

In our presentation, we will talk about earthquakes, their causes and types. We will also talk about the areas where earthquakes most often occur.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Kirill Ivanykin, Vladislav Khokhlachev, Nikita Semenov**

*Drilling rigs*

Drilling rigs are a complex of drilling equipment and structures designed for drilling wells (round-section mining). In this presentation we will talk about the functions, classification, operational and technical indicators, structures of drilling rigs

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Anastasia Kazachenko, Daria Ryabokoneva**

*Volcano*

The presentation gives an idea of the volcano, its structure and the causes of the eruption. We give an example of one of the most dangerous volcanic eruptions in the entire history of mankind, its consequences and causes of the eruption. Understanding this information allows us to cope with a serious geological hazard. volcanism is a process that is very dangerous, but inevitable.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Kirill Kislinskiy**

*Subsoil*

In this presentation we will briefly talk about the internal structure of the Earth, or rather the bowels and why they are needed. What can be obtained from them and what are useful.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Vyacheslav Lukin**, **Vladislav Maksimov**, **Artjom Usatenko**

*Minerals*  
In this report we will talk about what minerals are, what they are used for and what science studies them.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Nikita Kotelnikov, Denis Losev, Ilya Vasyunin**

*Tectonics*

Basic information about tectonic. Various classifications of tectonic are available for viewing. And information about the methods of tectonics research is also mentioned.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Nikita Nemerets**

*Oil in Human Life*

In this report I want to talk about the role of oil in human life, as well as what consequences can be if you do not monitor its production.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Maksim Shilov**

*Plate Tectonics*

The topic of the presentation is plate tectonics. Plate tectonics is a modern geodynamic concept based on the position of large-scale horizontal movements relative to integral fragments of the lithosphere (lithospheric plates). Thus, plate tectonics considers the movements and interactions of lithospheric plates. The presentation describes the main provisions of plate tectonics, as well as the consequences of their movement.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Alexander Yasov**

*Hyadrogeology*

In this report I will talk about the Fundamentals of Hyadrogeology. Namely, the classification of groundwater according to the conditions of occurrence, about engineering-geological processes and much more.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Ekaterina Zinovieva**

*Paleontology*

The presentation highlights the most interesting findings of paleontologists on planet Earth. These finds are of interest for paleontological study. The very essence of Paleontology as a science is also described.

*(Language Advisor: Anna Yu. Smirnova (PhD in Literature, Associate Professor, Department of English and Intercultural Communication, SSU)*

**Poster Session: Programming Languages (Building 12)**

**18 May 2022, 15:35-17:10**

**Time-limit: 5 minutes**

*Chairpersons:*

***Aleksandra A. Kriuchkova*** *(Lecturer, Department of English Language and Intercultural Communication, SSU)*

***Diana A. Mashkina*** *(master student, Faculty of Computer Science and Information Technologies, SSU)*

***Dmitri A. Sorokin*** *(master student, Faculty of Computer Science and Information Technologies, SSU)*

***Daniil S. Alexeev*** *(master student, Faculty of Computer Science and Information Technologies, SSU)*

**Egor Svinarev, Alexander Tultsov, Kirill Kirnosov, Evgeny Mangasaryan**

*Programming Language: C*

The aim of this post is to discuss the specifications of the C programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in C. Also, the article considers the software that was developed using C.

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Valeriya Brovenko, Alena Konopleva, Alina Semidotchenko**

*Programming Language: J*

The aim of this post is to discuss the specifications of the J programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in J. Also, the article considers the software that was developed using J.

*(Language Advisor: Olga V. Pavlova, PhD in Education, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Gleb Pavlov, Ilya Zaitsev, Victor Chupis, Denis Schmidt, Vladimir Dyakov**

*Programming Language: Perl*

The aim of this post is to discuss the specifications of the Perl programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in Perl. Also, the article considers the software that was developed using Perl.

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Elizaveta Chechetka, Viktoria Romanova, Daniil Chindin**

*Programming Language: Objective-C*

The aim of this post is to discuss the specifications of the Objective-C programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in Objective-C. Also, the article considers the software that was developed using Objective-C.

*(Language Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Nikolay Shashkov, Elena Yezhova, Kirill Tikholoz, Dmitry Mitin, Artyom Petrichenko**

*Programming Language: Mercury*

The aim of this post is to discuss the specifications of the Mercury programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in Mercury. Also, the article considers the software that was developed using Mercury.

*(Language Advisor: Aleksandra A. Kriuchkova, Lecturer, Department of English Language and Intercultural Communication, SSU)*

**Anna Ganyushkina, Dmitry Uspensky, Ivan Tarenkov**

*Programming Language: C#*

The aim of this post is to discuss the specifications of the C# programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in C#. Also, the article considers the software that was developed using C#.

*(Language Advisors: Olga V. Pavlova, PhD in Education, Associate Professor, Department of English Language and Intercultural Communication, SSU, Dina A. Alexeeva, PhD in Linguistics, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Andrey Anoshkin, Artyom Ivanov, Vasily Grishin, Alexander Novikov**

*Programming Language: Go*

The aim of this post is to discuss the specifications of the Go programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in Go. Also, the article considers the software that was developed using Go.

*(Language Advisor: Svetlana A. Shilova, Chair, Department of English Language and Intercultural Communication, SSU)*

**Olga Lokuta, Veronika Koshkareva, Maria Ignatova**

*Programming Language: Haskell*

The aim of this post is to discuss the specifications of the Haskell programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in Haskell. Also, the article considers the software that was developed using Haskell.

*(Language Advisor: Svetlana A. Shilova, Chair, Department of English Language and Intercultural Communication, SSU)*

**Anastasia Kniga, Maxim Sakhnov, Ilya Proskurin, Andrey Burmistrov**

*Programming Language: Dart*

The aim of this post is to discuss the specifications of the Dart programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in Dart. Also, the article considers the software that was developed using Dart.

*(Scientific Advisor: Svetlana A. Kosareva, Senior Lecturer, Department of English Language and Intercultural Communication, SSU, Svetlana A. Shilova, Chair, Department of English Language and Intercultural Communication, SSU, Dina A. Alexeeva, PhD in Linguistics, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Andrey Gradusov, Bogdan Ustyushin, Marina Lortkipanidze, Dmitry Syrov**

**Nikita Morozov**

*Programming Language: Icon*

The aim of this post is to discuss the specifications of the Icon programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in Icon. Also, the article considers the software that was developed using Icon.

*(Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Ilya Lankin, Roman Brovko, Alexandra Sayapina, Julia Gurina, Andrey Efimov**

*Programming Language: TypeScript*

The aim of this post is to discuss the specifications of the TypeScript programing language. It describes who and when created this programming language. In addition, the paper presents a sample program written in TypeScript. Also, the article considers the software that was developed using TypeScript.

*(Language Advisor: (Language Advisor: Maria A. Isaykina, PhD in Pedagogy, Associate Professor, Department of English Language and Intercultural Communication, SSU)*

**Участники конференции «Science Kaleidoscope»**

**Секция 1: Computer Science and Economics**

1. Дормидонтова Олеся Николаевна, студентка экономического факультета, 341 группа
2. Жумашева Аида Рашидовна, студентка экономического факультета, 211 группа
3. Мельников Артемий Дмитриевич, студент факультета компьютерных наук и информационных технологий, 211 группа
4. Митин Дмитрий Александрович, студент факультета компьютерных наук и информационных технологий, 211 группа
5. Назаров Кирилл Дмитриевич, студент факультета компьютерных наук и информационных технологий, 232 группа
6. Сметанкин Никита Артурович, студент факультета компьютерных наук и информационных технологий, 232 группа
7. Тихолоз Кирилл Валерьевич, студент факультета компьютерных наук и информационных технологий, 211 группа
8. Хамазаев Руслан Максимович, студент факультета компьютерных наук и информационных технологий, 241 группа
9. Яшин Максим Алексеевич, студент факультета компьютерных наук и информационных технологий, 232 группа

**Секция 2: Computer Science and Information Technologies**

1. Вильцев Данила Денисович, студент факультета компьютерных наук и информационных технологий, 211 группа.
2. Ежова Елена Дмитриевна, студентка факультета компьютерных наук и информационных технологий, 232 группа
3. Кузякин Никита Александрович, студент факультета компьютерных наук и информационных технологий, 251 группа
4. Левашкина Анастасия Анатольевна, студентка факультета компьютерных наук и информационных технологий, 341 группа
5. Петриченко Артем Максимович, студент факультета компьютерных наук и информационных технологий, 251 группа
6. Романова Виктория Васильевна, студентка факультета компьютерных наук и информационных технологий, 251 группа
7. Стаин Роман Игоревич, студент факультета компьютерных наук и информационных технологий, 331 группа
8. Чечетка Елизавета Антоновна, студентка факультета компьютерных наук и информационных технологий, 251 группа
9. Шашков Николай Владимирович, студент факультета компьютерных наук и информационных технологий, 232 группа
10. Шустов Николай Николаевич, студент факультета компьютерных наук и информационных технологий, 331 группа

**Секция 3: IT and Economics**

1. Арзуманян Артём Робертович, студент экономического факультета 121 группы
2. Градусов Андрей Алексеевич, студент факультета компьютерных наук и информационных технологий, 121 группа
3. Гражданов Александр Константинович, студент факультета компьютерных наук и информационных технологий, 141 группа
4. Пионткевич Полина Антоновна, студентка экономического факультета 121 группы
5. Попова Анастасия Алексеевна, студентка экономического факультета, 111 группа
6. Саяпина Александра Андреевна, студентка факультета компьютерных наук и информационных технологий, 132 группа
7. Устюшин Богдан Антонович, студент факультета компьютерных наук и информационных технологий, 121 группа
8. Фадейкина Румия Данияровна, студентка экономического факультета, 111 группа

**Секция 4: Economics and Finances**

1. Бадалян Диана Масисовна, студентка экономического факультета, 111 группа.
2. Добродомова Яна Алексеевна, студента экономического факультета, 111 группа
3. Гамидов Руслан Азайевич, студент экономического факультета, 111 группа
4. Гусева Дарья Алексеевна, студентка экономического факультета, 111 группа
5. Курапова Арина Николаевна, студентка экономического факультета, 111 группа
6. Лязгиян Зани Гургеновна, студентка экономического факультета, 111 группа
7. Раджабова Лейла Раджабовна студентка экономического факультета, 111 группа
8. Рябинин Александр Андреевич, студент экономического факультета, 111 группа
9. Туркин Андрей Алексеевич, студент экономического факультета, 111 группа
10. Федотов Владислав Романович, студент экономического факультета, 111 группа
11. Черкасова Светлана Ивановна, студентка экономического факультета, 111 группа
12. Шевченко Ксения Сергеевна, студентка экономического факультета, 111 группа

**Cекции № 1, 2: Biology**

1. Боровская Диана Алексеевна, студентка биологического факультета, 221 группа
2. Боровская Маргарита Алексеевна, студентка биологического факультета, 221 группа
3. Вахнеева Ирина Кирилловна, студентка биологического факультета, 122 группа
4. Голубев Дмитрий Михайлович, студент  биологического факультета, 221 группа
5. Губанов Сергей Вячеславович, студент  биологического факультета, 123 группа
6. Жулина Ксения Станиславовна, студентка биологического факультета, 222 группа
7. Лучкина Дарья Вадимовна, студентка биологического факультета, 222 группа
8. Мартыненко Анжелика Викторовна, студентка биологического факультета, 222 группа
9. Мосалев Андрей Сергеевич, студент биологического факультета, 222 группа
10. Никельшпарг Матвей Ильич, студент биологического факультета, 121 группа
11. Олейников Антон Сергеевич, студент  биологического факультета, 222 группа
12. Семенова Виктория Павловна, студентка биологического факультета, 222 группа 222
13. Солянников Вадим Владимирович, студент  биологического факультета, 222 группа, 222
14. Стрельцова Валерия Валерьевна, студентка биологического факультета, 222 группа
15. Такаишвили Валерия Вячеславовна, студентка биологического факультета, 222 группа
16. Тарасов Денис Владимирович, студент  биологического факультета, 123 группа
17. Тужилкин Матвей Алексеевич, студент биологического факультета, 222 группа
18. Щиголев Илья Валерьевич, студент биологического факультета, 121 группа
19. Ягодкин Георгий Сергеевич, студент биологического факультета, 122 группа

**Секции №1, 2: Mathematics**

1. Ананов Арутюн Ашотович,студент механико-математического факультета, 241 группа
2. Андрусяк Дмитрий Николаевич, студент механико-математического факультета, 112 группа
3. Банникова Алёна Сергеевна, студентка механико-математического факультета, 111 группа
4. Барышникова Елизавета Юрьевна, студентка института физики,1021 группа
5. Бирюков Роман Сергеевич, студент механико-математического факультета, 212 группа
6. Булатов Никита Владимирович, студент механико-математического факультета, 241 группа
7. Веденеев Вадим Дмитриевич, студент механико-математического факультета 212 группа
8. Власова Елена Константиновна, студентка механико-математического факультета, 251 группа
9. Володин Максим Сергеевич, студент механико-математического факультета, 141 группа
10. Володин Максим Сергеевич, студент механико-математического факультета,141 группа
11. Гнатюк Андрей Евгеньевич, студент механико-математического факультета, 251 группа
12. Гришанова Алина Максимовна, студентка механико-математического факультета,151 группа
13. Гурьянова Дарья Александровна, студентка механико-математического факультета, 152 группа
14. Джеманкулов Марат Азаматович, студент механико-математического факультета,141 группа
15. Дипломатова Елизавета Михайловна, студентка института физики, 1023 группа
16. Коваленко Виктория Алексеевна, студентка института физики, 1023 группа
17. Дмитриев Никита Олегович, студент механико-математического факультета, 112 группа
18. Ёскина Елена Сергеевна,студентка механико-математического факультета, 251 группа
19. Журлов Алесандр Дмитриевич, студент механико-математического факультета, 141 группа
20. Казеева Марина Владимировна, студентка механико-математического факультета, 251 группа
21. Козлова Алена Александровна, студент механико-математического факультета, 211 группа
22. Коннова Анастасия Ивановна, студентка механико-математического факультета, 251 группа
23. Куликова Анна Алексеевна, студентка механико-математического факультета, 151 группа
24. Курынова Жанна Олеговна, студентка механико-математического факультета, 212 группа
25. Липилин Денис Константинович, студент механико-математического факультета, 212 группа
26. Лукьянов Павел Сергеевич, студент механико-математического факультета, 221 группа
27. Мамонов Алексей Николаевич, студент механико-математического факультета, 122 группа
28. Мардеева Александра Рустамовна, студентка механико-математического факультета, 221 группа
29. Мартынов Кирилл Андреевич, студент механико-математического факультета, 131 группа
30. Мартюшенко Ольга Владимировна, студентка механико-математического факультета, 251 группа
31. Мещерякова Елизвета Ризвановна, студентка механико-математического факультета, 151 группа
32. Нарватов Вадим Валерьевич, студент механико-математического факультета, 251 группа
33. Никифоров Даниил Владимирович, студент механико-математического факультета, 111 группа
34. Николаев Григорий Ильич, студент механико-математического факультета,151 группа
35. Павленко Олег Олегович, студент механико-математического факультета, 222 группа
36. Павлова Алена Александровна, студентка механико-математического факультета, 112 группа
37. Павлюкович Владислав Михайлович, студент механико-математического факультета, 241 группа
38. Павлюкович Владислав Михайлович, студент механико-математического факультета, 241 группа
39. Потапов Мирослав Андреевич, студент механико-математического факультета, 142 группа
40. Сергиенко Григорий Станиславович, студент механико-математического факультета,141 группа
41. Сережкина София Александровна, студентка механико-математического факультета, 251 группа
42. Степкина Ксения Сергеевна, студентка механико-математического факультета,141 группа
43. Ступников Илья Олегович, студент механико-математического факультета, 112 группа
44. Тома Екатерина Владимировна, студентка механико-математического факультета, 141 группа
45. Ушаков Иван Владимирович, студент механико-математического факультета, 222 группа
46. Шевцова Полина Алексеевна, студентка механико-математического факультета, 211 группа
47. Шевченко Алина Игоревна, студентка механико-математического факультета, 251 группа
48. Шикалова Антонина Николаевна, студентка механико-математического факультета,111 группа

**Секция: Physics & Nanotechnology**

1. Семенова Дарья Андреевна, студентка Института физики, группа 1021
2. Прохорова Вероника Дмитриевна, студентка Института физики, группа 1021
3. Шамарина Алина Алексеевна, студентка Института физики, группа 1022
4. Думов Тимофей Артемович, студент Института физики, группа 1033
5. Васильев Данила Александрович, студент Института физики, группа 1041
6. Забелина Вера Сергеевна, студентка Института физики, группа 1041
7. Максимов Даниил Алексеевич, студент Института физики, группа 1011
8. Рахметов Дамир Киясович, студент Института физики, группа 1011
9. Захаров Сергей Петрович, студент Института физики, группа 1032
10. Петров Дмитрий Александрович, студент Института физики, группа 1022
11. Кудряшова Екатерина Максимовна, студентка Института физики, 2101 группа
12. Мещеряков Роман Константинович, студент Института физики, 2021 группа
13. Попова Полина Сергеевна, студентка Института физики, 2091 группа
14. Чернозубкина Кристина Сергеевна, студентка Института физики, 2041 группа
15. Гресь Артём Александрович, студент Института физики, 1082 группа
16. Рескаленко Инна Александровна, студентка Института физики, 1041 группа

**Секция: Geography**

1. Агеева Анастасия Андреевна – студентка географического факультета, 221 группа
2. Сердюков Антон Олегович, студент географического факультета, 211 группа
3. Кукош Антон Сергеевич, студент географического факультета, 211 группа
4. Кузнецов Сергей Евгеньевич - – студент географического факультета, 221 группа
5. Кусов Артем Леонидович – студент географического факультета, 221 группа
6. Лебедева Екатерина Николаевна – студентка географического факультета, 221 группа
7. Миронюк Валерия Витальевна – студентка географического факультета, 222 группа
8. Оленева Ангелина Руслановна – студентка географического факультета 222 группа
9. Петрова Алина Андреевна, студентка географического факультета, 211 группа
10. Сазонова Софья Сергеевна – студентка географического факультета 222 группа
11. Сивашева Анастасия Георгиевна – студентка географического факультета 222 группа
12. Сорокина Елена Павловна, студентка географического факультета, 211 группа
13. Черпинская Екатерина Алексеевна – студентка географического факультета, 222 группа

**Cекция: Chemistry**

1. Корнышева Юлия Андреевна, студентка Института химии, 212 группа
2. Шелеметьева Ксения Алексеевна, студентка Института химии, 212 группа
3. Кетруш Елизавета Федоровна, студентка Института химии, 211 группа
4. Мещерякова Светлана Андреевна, студентка Института химии, 211 группа
5. Гусейнова Дарья Рустамовна, студентка Института химии, 212 группа
6. Фёдорова Екатерина Александровна, студентка Института химии, 212 группа
7. Будняя Екатерина Анатольевна, студентка Института химии, 212 группа
8. Каратеева Евгения Дмитриевна, студентка Института химии, 212 группа
9. Новицкая Анна Михайловна, студентка Института химии, 212 группа
10. Иванова Ирина Сергеевна, студентка Института химии, 212 группа
11. Рыкалина Снежана Сергеевна, студентка Института химии, 212 группа
12. Коларькова Ксения Владимировна, студентка Института химии, 212 группа
13. Приданкина Дарья Владимировна, студентка Института химии, 212 группа
14. Бутин Роман Романович, студент Института химии, 212 группа
15. Кормилицин Егор Андреевич, студент Института химии, 212 группа
16. Ренье Александр Вячеславович, студент Института химии, 212 группа
17. Шенцев Макар Александрович, студент Института химии, 212 группа

**Секция: Geology**

1. Абдряев Марат Рашидович, студент геологического факультета, 151 группа
2. Алиева Аминат Шамилевна, студентка геологического факультета,151 группа
3. Афросина Ольга Юрьевна, студентка геологического факультета,151 группа
4. Бахтигеерева Эльсияра, студентка геологического факультета,152 группа
5. Васюнин Илья Вадимович, геологический факультет,151 группа
6. Вербицкий Сергей Сергеевич, студент геологического факультета, 151 группа
7. Горбачева Анастасия Сергеевна, геологический факультет,151 группа
8. Далгатов Шамиль Рамазанович, геологический факультет,151 группа
9. Жукушева Алсу Сагидуллаевна, геологический факультет, 151 группа
10. Зиновьева Екатерина Валентиновна, геологический факультет, 151 группа
11. Иваныкин Кирилл Романович, геологический факультет, 152 группа
12. Илюхина Дарья Сергеевна, геологический факультет 151 группа
13. Казаченко Анастасия Сергеевна, геологический факультет 151 группа
14. Кислинский Кирилл Сергеевич, геологический факультет,152 группа
15. Котельников Никита Сергеевич, геологический факультет,151 группа
16. Корпотин Георгий Алексеевич, геологический факультет,152 группа
17. Лосев Денис Александрович, геологический факультет,151 группа
18. Лукин Вячеслав, геологический факультет,152 группа
19. Максимов Владислав, геологический факультет,152 группа
20. Максимов Денис Олегович студент геологического факультета, 151 группа
21. Немерец Никита Станиславович, геологический факультет,152 группа.
22. Рябоконева Дарья Александровна, геологический факультет 151 группа
23. Семёнов Никита Александрович, геологический факультет, 152 группа
24. Симаченко Илья, геологический факультет,152 группа
25. Усатенко Артем, геологический факультет,152 группа
26. Хохлачёв Владислав Владимирович, геологический факультет, 152 группа
27. Шилов Максим Владимирович, геологический факультет 152 группа,
28. Ясов Александр Сергеевич, геологический факультет,152 группа.

**Постерная секция факультета компьютерных наук и информационных технологий: Programming Languages**

1. Аношкин Андрей Алексеевич, студент факультета компьютерных наук и информационных технологий, 111 группа.
2. Бровенко Валерия Степановна, студентка факультета компьютерных наук и информационных технологий, 241 группа.
3. Бровко Роман Александрович, студент факультета компьютерных наук и информационных технологий, 151 группа.
4. Бурмистров Андрей Алексеевич, студент факультета компьютерных наук и информационных технологий, 181 группа.
5. Ганюшкина Анна Вячеславовна, студентка факультета компьютерных наук и информационных технологий, 241 группа.
6. Градусов Андрей Алексеевич, студент факультета компьютерных наук и информационных технологий, 121 группа.
7. Гришин Василий Вячеславович, студент факультета компьютерных наук и информационных технологий, 132 группа.
8. Гурина Юлия Алексеевна, студентка факультета компьютерных наук и информационных технологий, 131 группа.
9. Дьяков Владимир Алексеевич, студент факультета компьютерных наук и информационных технологий, 121 группа.
10. Ежова Елена Дмитриевна, студент факультета компьютерных наук и информационных технологий, 232 группа.
11. Ефимов Андрей Андреевич, студент факультета компьютерных наук и информационных технологий, 111 группа.
12. Зайцев Илья Сергеевич, студент факультета компьютерных наук и информационных технологий, 181 группа.
13. Иванов Артём Олегович, студент факультета компьютерных наук и информационных технологий, 111 группа.
14. Игнатова Мария Игоревна, студентка факультета компьютерных наук и информационных технологий, 151 группа.
15. Кирсонов Кирилл Павлович, студент факультета компьютерных наук и информационных технологий, 111 группа.
16. Книга Анастасия Васильевна, студентка факультета компьютерных наук и информационных технологий, 131 группа.
17. Коноплева Алена Игоревна, студентка факультета компьютерных наук и информационных технологий, 241 группа.
18. Кошкарева Вероника Владимировна, студентка факультета компьютерных наук и информационных технологий, 151 группа.
19. Ланкин Илья Сергеевич, студент факультета компьютерных наук и информационных технологий, 151 группа.
20. Локута Ольга Олеговна, студентка факультета компьютерных наук и информационных технологий, 151 группа.
21. Лорткипанидзе Марина Тамазовна, студентка факультета компьютерных наук и информационных технологий, 122 группа.
22. Мангасарян Евгений Павлович, студент факультета компьютерных наук и информационных технологий, 151 группа.
23. Митин Дмитрий Александрович, студент факультета компьютерных наук и информационных технологий, 211 группа.
24. Морозов Никита Андреевич, студент факультета компьютерных наук и информационных технологий, 122 группа.
25. Новиков Александр Викторович, студент факультета компьютерных наук и информационных технологий, 151 группа.
26. Павлов Глеб Дмитриевич, студент факультета компьютерных наук и информационных технологий, 181 группа.
27. Петриченко Артем Максимович, студент факультета компьютерных наук и информационных технологий, 251 группа.
28. Проскурин Илья Павлович, студент факультета компьютерных наук и информационных технологий, 122 группа.
29. Романова Виктория Васильевна, студентка факультета компьютерных наук и информационных технологий, 251 группа.
30. Сахнов Максим Алексеевич, студент факультета компьютерных наук и информационных технологий, 151 группа.
31. Саяпина Александра Андреевна, студентка факультета компьютерных наук и информационных технологий, 132 группа.
32. Свинарев Егор Антонович, студент факультета компьютерных наук и информационных технологий, 151 группа.
33. Семидотченко Алина Денисовна, студентка факультета компьютерных наук и информационных технологий, 241 группа.
34. Сыров Дмитрий Олегович, студент факультета компьютерных наук и информационных технологий, 122 группа.
35. Таренков Иван Алексеевич, студент факультета компьютерных наук и информационных технологий, 241 группа.
36. Тихолоз Кирилл Валерьевич, студент факультета компьютерных наук и информационных технологий, 211 группа.
37. Тульцов Александр Алексеевич, студент факультета компьютерных наук и информационных технологий, 111 группа.
38. Успенский Дмитрий Кириллович, студент факультета компьютерных наук и информационных технологий, 241 группа.
39. Устюшин Богдан Антонович, студент факультета компьютерных наук и информационных технологий, 121 группа.
40. Чечетка Елизавета Антоновна, студентка факультета компьютерных наук и информационных технологий, 251 группа.
41. Чиндин Даниил Михайлович, студент факультета компьютерных наук и информационных технологий, 251 группа.
42. Чупис Виктор Михайлович, студент факультета компьютерных наук и информационных технологий, 141 группа.
43. Шашков Николай Владимирович, студент факультета компьютерных наук и информационных технологий, 232 группа.
44. Шмидт Денис Борисович, студент факультета компьютерных наук и информационных технологий, 141 группа.