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|  **24 March,** [**Saturday**](http://www.multitran.ru/c/m.exe?a=118&t=10847_1_2) |
| **Time** | **Event** | **Place** |
|  **PRECONFERENCE EVENT** |  |
| 10.00-11.30 | Workshop:«Designing a scientific research poster and report: best practices » | ***Presenter: Anna Smirnova*** (PhD in Literature, Assoc.Prof., Department of English and Intercultural Communication, SSU),***Anna Sosnovskaya*** (PhD inLinguistics, Assoc.Prof., Department of English and Intercultural Communication,SSU) | Building 18,Room 208 |

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| **April 10, Tuesday** |
| 10.00-12.00 | **Panel Discussion**  **1: Physics & Nanotechnology** | Building 18, Room 208 |
| 10.00-12.00 | **Panel Discussion 2: Mathematics & Computer Science** | Building 9, Room 201 |
| 11.45-14.00 | **Panel Discussion**  **3: Biology &Chemistry** | Building 12, Room 125 |
| 14.15-16.15 | **Panel Discussion 4: Computer Science& Economics** | Building 12, Room 125 |
| **April 11, Wednesday** |
| 12.00-15.00 | **Deutsche Sektion**  | Gebäude 7, Raum 410 |
| 12.00-14.00 | **POSTER SESSION 1 / Certificate Award Ceremony** | Building 12, Room 125 |
| 12.00-14.00 | **POSTER SESSION 2 / Certificate Award Ceremony** | Building 12, Room 126 |
| **13.00-14.00** | **COFFEE BREAK** |

**Panel Discussion 1: Physics & Nanotechnology (Building 18, Room 208 )**

**10 April 2018, 10:00-12:00**

**Time-limit: 7 minutes**

*Chairpersons:*

***Sergey V. Pyzonkov*** *( Senior Lecturer, Department of English and Intercultural Communication, SSU)*

***Aleksey A. Kletsov*** (*Candidate of Physical and Mathematical Sciences, Associate Professor, SSU)*

**Anna Gagarina**

*The Frequency Synchronization and Tightening of Self-oscillations the Briggs-Rauscher Reaction at the Periodical Influence Light*

The high sensitivity of the self-oscillatory reaction regime to the periodic action of white light is shown in the work. The dependence of the synchronization band on the magnitude of the light flux is given, the synchronization and frequency tightening frequencies of the concentration oscillations are determined with external light exposure.

*(Scientific Advisor: Andrey P. Rytik, PhD in Physics and Mathematics, Associate Professor, Department of Medical Physics, SSU)*

**Andrey Grachev**

*Coupled Spin Waves in Strain-Tuned Magnetic Waveguides*

The numerical simulation and Brillouin spectroscopy measurement have demonstrated the possibility of controlling the properties of coupled spin waves propagating in a transversely limited layered YIG–piezoelectric structure.

*(Scientific Advisor:* *Aleksandr V, Sadovnikov, PhD, associate professor, Department of Physics of Open Systems, SSU)*

**Yurii Ishbulatov**

*Self-exciting Mathematical Model for Baroreflectory Regulation of Cardio-Vascular System*

We propose a mathematical model of cardio-vascular system with self-exciting baroreflex mediated regulation of heart rate, heart contractility and vasoconstriction. Proposed model was verified via comparison to real experimental data.

*(Scientific Advisor:* *Anatoly S. Karavaev; PhD (Candidate of Physical and Mathematical Sciences); Associated Professor; SSU)*

**Anastasiia Kozlova, Ekaterina Lengert**

*Evaluation of Fe3O4 Nanoparticles Loading Efficiency into (Sub)Microcapsules of Different Structure by Colorimetric Titration Method*

Microcapsules with Alginate/Ag shell and polyelectolite Parg/DS submicron capsules were formed. Obtained structures contained Fe3O4 nanoparticles in a core or/and in a shell. Colorimetric titration method was used to determine ferrum oxide (III) nanoparticles concentration to evaluate the efficiency of loading

*(Scientific Advisor:* *Dmitry A. Gorin, PhD in Chemistry, Professor, Department of Semiconductor Physics, SSU)*

**Denis Kochnev**

*Modeling of Porous Silicon Formation via Cellular Automaton*

The article gives detailed algorithms for implementation of mathematical model of porous silicon formation by electrochemical etching via cellular automaton. Results of modeling are compared with real structures of porous silicon obtained by scanning electron microscopy.

*(Scientific Advisor: Denis V. Terin, Associate Professor, PhD in Physics and Mathematics, Department of Material Science and Quality Management, SSU)*

**Dmitriy Mayskov**

*Features of the Temperature Response on Double Cuff-Occlusion of the Upper Limbs: Remote Ischemic Preconditioning Aspect*

The use of the brachial artery occlusion as a distant ischemic preconditioning method of the myocardium was studied. Infrared thermography was used to study the temperature response of twelve healthy subjects with double shoulder occlusion.The experiment results indicate participation of not only local, but also systemic vascular tone regulation mechanisms.

*(Scientific Advisor:* *Anatoly V. Skripal, Doctor of Physical and Mathematical Sciences, Professor, Department of Medical Physics, SSU)*

**Sergey Odintsov**

*Nonlinear Switching of Spin Waves in the Laterally Magnonic Waveguides*

Experimental and numerical studies of spin-wave nonlinear dynamics in a system of lateral magnetic microstructures are carried out. It is shown that the spin-wave coupling length can be controlled by changing the signal power. The results obtained can be used to create microwave devices.

*(Scientific Advisor:* *Evgeniy N. Beginin, PhD in Physics and Mathematics, Associate Professor, Department of Nonlinear Physics, SSU)*

**Arina Rodina**

*Gyrotron as a Source of Electromagnetic Radiation of THz Region.*

Powerful gyrotrons with radiation frequencies in the range 0.33–0.65 THz were demonstrated at the IAP as early as in the 1970–1980s. This trend has recently been renewed in connection with a significant increase in interest in terahertz frequency range. Designs of a pulsed fundamental-harmonic gyrotron with a frequency of 0.4 THz are currently developed. Estimates show that modern techniques for the creation of strong magnetic fields now make it possible to realize gyrotrons with an operating frequency at least up to 1–1.5 THz. Such generators utilize a relatively low particle energy and can provide higher average power.

*(Scientific Advisor:* *Andrey G. Rozhnev, Associate Professor, Department of Nonlinear Physics, SSU)*

**Alyona Rostuntsova**

*About Self-Similar Nature of Short Electromagnetic Pulses Generation in the Backward-Wave Tube*

It is shown that the equations describing the operation of the backward-wave tube (BWT) have a self-similar solution corresponding to the generation of short pulses at the initial stage of the transient process in the BWT. The dependences of the main characteristics of such pulses on time and control parameters are investigated.

*(Scientific Advisor: Nikita M. Ryskin, Doctor of Physics and Mathematics, Professor, Department of Nonlinear Physics, SSU)*

**Karina Sadchikova**

*Analysis of electrooptical characteristics of liquid crystals (LC)*

The results of the analysis of the electrooptical characteristics of the LC used in ophthalmology were described in this paper. The several samples were determined to be agreed with all requirements to use them in ophthalmic disease treatment. There was shown that LC can be used for saccade activation, which have good influence on eyesight improvement.

*(Scientific Advisor:* *Anatoly V. Skripal, Doctor of Physics and Mathematics, Professor)*

**Anton Storublev**

*A Cathode is the Heart of Vacuum Electron Devices*

The article describes testing of the cathode with field emission to a characteristic of current in the model developed for testing issue properties of thermocathodes. Characteristics of carrying out a similar experiment are analysed, ways of optimization for obtaining the most qualitative result are provided.

*(Scientific Advisor:**Ravil K. Yafarov, Doctor of Technical Sciences, Department of Solid State Physics, SSU)*

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

**10 April 2018, 10:00-12:00**

**Time-limit: 7 minutes**

*Chairpersons:*

***Konstantin A. Grebenyuk*** *(PhD in Physics and Mathematics, Assoc.Prof., Department of Radiophysics and* [*Electrodynamics*](http://www.multitran.ru/c/m.exe?t=1260594_1_2)*, SSU)*

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

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

**SofiaBragina**

*Applying Data Mining Techniques for Medical and Social Data Analysis*

The paper presents the analysis of the data of the alcohol addiction research among young adults from the US via the method of decision trees construction using various algorithms. Subject area is described in terms of created data warehouse. As a result, different decision trees are created, comparative analysis is performed.

*(Scientific Advisor: Yuriy A. Blinkov (Doctor of Physics and Mathematics, Professor, Department of Mathematic and Computer Modeling, SSU)*

**Elena Novokshonova**

*Algorithm for Checking the Sperner Property for Linear Graphs*

The article deals with the Sperner property for linear graphs. A poset has the Sperner property if there is at least one antichain consists of elements with the same height among its antichains with maximum length. Linear graph is a connected graph obtained from a polygonal graph by removing some arcs. In linear graph the relation of reachability is an order relation. So it’s possible to associate linear graph with poset. It resulted into an algorithm for checking the Sperner property for a linear graph.

*(Scientific Advisor: Viacheslav N. Salii (PhD in Physics and Mathematics, Professor, Department of Computer Security and Cryptography Theory, SSU)*

**Irina Petrunina**

*Web-Focused Expert System in the Field of Law*

This paper describes the web-focused expert system in the field of law. The article provides an outlining peculiarities of system, advantages and limitations.

*(Scientific Advisor: Aleksandr S. Ivanov (PhD in Physics and Mathematics,* [*Associate Professor*](http://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/Associate%2BProfessor)*, Department of Mathematical Cybernetics and Computer Sciences)*

**Peter Razumovsky**

*Graph vertex coloring by McKay’s approach*

This report describes the algorithm of generating all non-isomorphic vertex colorings for defined graph without isomorphism proving by McKay’s approach.

*(Scientific Advisor: Mikhail B. Abrosimov (Doctor of Physics and Mathematics, Professor, Department of Computer Security and Cryptography Theory, SSU)*

**Oleg Smirnov**

*About a Partially Ordered Set of Chain Congruences of a Graph*

This paper deals with the structure of partially ordered set (poset) of chain congruences of an arbitrary graph. The maximal and minimal elements, the length of an ordered set, the principal ideals and coideals are described. It is shown that such posets in the general case are not lattices.

*(Scientific Advisor: Viacheslav N. Salii (PhD in Physics and Mathematics, Professor, Department of Computer Security and Cryptography Theory, SSU)*

**Nadezda Sergeeva**

*Influence of Internal Friction on the Dispersion of Harmonic Waves in Metals and Plastics*

The paper deals with the study of wave processes in an elastic layer considering the internal friction. The material of the layer is described by the fractional-exponential Rabotnov’s function. The influence of the internal friction parameters on the behavior of the dispersion curves is studied. The comparative analysis for real materials is carried out.*(Scientific Advisor: Maria V. Wilde (Doctor of Physics and Mathematics, Professor, Department of Mathematical Theory of Elasticity and Biomechanics, SSU)*

**Anna Sheina**

*Convergence of Orthorecursive Representation on a System Type of Faber-Schauder*

The article is devoted to the investigation of the properties of orthorecursive represantation on different systems of functions. It has been proved that orthorecursive represantation converges to the decomposable element in the space for the system of contractions and shifs generated by a smooth function.

*(Scientific Advisor: Sergey F. Lukomskiy, Doctor in Physics and Mathematics, Professor, Department of Mathematic Analysis, SSU)*

**Maria Surova**

*Non-stationary Flexural Edge Waves in the Framework of the Explicit Asymptotic Model*

A new technique for analyzing flexural edge waves has recently been developed. It consists in constructing approximate models that describe localized waves. These models reflect the dual hyperbolic-elliptic nature of the Rayleigh and Gulyaev-Blyshtein surface waves. They consist of an elliptic equation describing wave attenuation in the direction from the surface and a hyperbolic equation characterizing the wave propagation on the surface and provide a significant simplification of the formulation and solution of problems aimed at analyzing the propagation of surface waves.

*(Scientific Advisor: Maria V. Wilde (Doctor of Physics and Mathematics, Professor, Department of Mathematical Theory of Elasticity and Biomechanics, SSU)*

**Andrey Zherdev**

*Asymptotic Expansion for Conformal Radii of Two Nonoverlapping Domains*

We consider a family of continuously varying closed Jordan curves given by a polar equation, such that the interiors of the curves form an increasing or decreasing chain of domains. Such chains can be described by the Löwner-Kufarev differential equation. We deduce an integral representation of a driving function in the equation. Using this representation we obtain an asymptotic formula, which establishes a connection between conformal radii of bounded and unbounded components of the complement of the Jordan curve when the bounded component is close to the unit disk.

*(Scientific Advisor: Dmitri V. Prokhorov (Doctor of Physics and Mathematics, Professor, Department of Mathematic Analysis, SSU)*

**Panel Discussion 3: Chemistry, Biology, Geology (Building 12, Room 125)**

**10 April 2018, 11:45-14:00**

**Time-limit: 7 minutes**

*Chairpersons:*

***Mikhail V. Pozharov*** *(PhD in Chemistry, Junior Researcher, Laboratory of General and Inorganic Chemistry, SSU)*

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

**Aleksandr Amikishiev**

*Combined Reaction-Rectification Process of Pentane-Hexane Fraction Isomerization*

The article contains the analysis of several types of combined isomerization-rectification process. The purpose of this work is to choose the optimal technological scheme for the isomerization of the pentane-hexane fraction in reaction-rectification column. (*Scientific Advisor: Svetlana B. Romadyonkina, PhD in Chemistry, Associate Professor)*

**Svetlana Borisova**

*New Substrates for Synthesis Azachalcones*

The possibility of using Hantzsch ethers as substrates for the azachalcones synthesis is discussed. *(Scientific Advisor: Irina N. Klochkova, Doctor of Chemistry, Professor)*

**Lyubov Borozdina**

*Dynamics of Nestling Birds Faunal Composition of the Medveditsa River Middle Course in 2013-2016*

The purpose of the work: to analyze the dynamics of bird faunal composition in changing conditions of floodplain hydrological cycle. Research methods: the birds quantitative accounting, mapping of their nesting sites. Assessment of statistical similarity of species was carried out by means of Mann-Whitney nonparametric U-criterion. *(Scientific Advisor: Alexandr V.* *Belyachenko, PhD in Biology, Associate Professor)*

**Aleksey Levin**

*Prognostic Criteria for Assessing the Clinical and Laboratory Efficiency of Original and Generic Immunosuppressants after Kidney Transplantation*

Supportive immunosuppression has to ensure maximum life expectancy of the recipient, which is determined by the accuracy of the selection of the immunosuppressant. It is extremely important to control the concentration of drugs in the blood when switching to another dosage form. *(Scientific Advisor: Elena V. Glinskaya,* *PhD in Biology, Associate Professor)*

**Aleksandra Lozbyakova**

*Biotesting of Chemical Effects of Falling Leaves of Woody Plants*

The influence of water-soluble active substances from the leaves of woody plants (leafy maple, birch, oak, ordinary aspen) on the germination of seeds of the investigated species of cultivated plants, which are test objects (wheat, spring cress salad, pink and red reddish with a white tip, tomato “black moor”) is found. Aspen has the most suppressive effect on the growth and development of seedlings; birch has a stimulating effect on tomato and cress salad. *(Scientific Advisor: Mikhail V.* *Stepanov, PhD in Biology, Associate Professor)*

**Dmitry Makhov**

*Optimization of the Mechanoactivation Stage of the Lithium Carbonate – Rutile System in the Production of a Functional Material Based on Pentatitanate Lithium for Energy Storage Devices*

Optimization of the functional material is proposed by controlling the intensity factors and the duration of mechanoactivation of the mixture of the initial materials when it is obtained. The application of various approaches for estimating the level of excess energy in the processed systems is considered. (*Scientific Advisor: Arseniy V. Ushakov, PhD in Chemistry, Associate Professor)*

**Semen Makhov**

*Separating Materials Obtained by an Electroformation Method for Lithium-Ion Batteries*

Separating material is one of the important components of the lithium-ion battery. The separator must have high mechanical strength, acceptable wettability of the electrolyte, and low ion current resistance in the electrolyte in addition to preventing the direct closure of electrode materials. In this paper it is described how the separator was obtained by an electroformation method and its physical and electrochemical properties were studied. *(Scientific Advisor: Alexander V. Ivanischev, Doctor of Chemistry, Professor)*

**Andrey Malyuga**

*Prospects for New Methods of Geological and Technological Analysis of the Process of Potentially Difficult Wells Construction*

In order to improve technical and economic indicators of drilling, it is necessary to develop effective methods for forecasting and assessing potential complications. The report examines the tasks and solutions for information and recommendation support for the passing of complicated zones during the construction of wells. (*Scientific Advisor: Boris A. Golovin, PhD in Geology and Mineralogy, Associate Professor)*

**Anna Meshcheryakova**

*Three-component condensation of 2-aminobenzimidazoles, cyclohexanones and replaced benzaldehydes*

Heterocyclic compounds play significant role in the biological processes in living cells and they used in the development of new drugs expressing anticancer and antibacterial activity. Multicomponent reactions (MCRs) are one of the most important synthetic methodologies to form diverse and complex heterocyclic systems. (*Scientific Advisor: V.V. Sorokin ,PhD in* Chemistry*.)*

**Ruslan Mursalov**

*Electroanalytical Properties of Unmodified and Polyaniline Modified Membranes in Solutions of Certain Antibiotics*

Measurement of membranes resistance is a kind of electrochemical methods of analysis. The scientist has a task to minimize resistance in order to improve the current-conducting properties of the membrane. As the title implies the present work describes the effect on the properties of membranes of an electrically conductive polymer, such as polyaniline. The main idea of this article is to present a solution to the problem of high ohmic resistances. The particular interest is the modification of the membrane by polymer. The comparison is also made with the functioning of membranes without a conductive polymer. The presented measurement results are analyzed and compared. *(Scientific Advisor: Elena G.* *Kulapina, Doctor of Chemistry, Professor)*

**Oxana Potapova**

*The Structure of Azospirillum Formosense Bacteria Lipopolysaccharides*

Diazotrophic rhizobacteria Azospirillum formosense underwent cultivation. Components of outer membrane, lipopolysaccharides, were isolated. Ester-linked and amide-linked fatty acids were defined. The structure of O-specific polysaccharide was established by chemical analysis methods and 1D and 2D NMR-spectroscopy. *(Scientific Advisor:* *Svetlana A. Konnova, Doctor of* *Biology, Professor; Elena N.* *Sigida,* *PhD in Biology, research assistant, laboratory of Biochemistry, IBPPM RAS )*

**Sultan Rakhmetov**

*Assessment of the Resolution and Sensitivity of the Transient Method Based on Numerical Simulation*

Calculation of resolution and sensitivity of the transient electromagnetic field method for the normal section and the same section but containing the anomalous layer is performed. Times of coming from the roof and the soles of the anomalous layer are calculated. Evaluation of resolution and sensitivity of the transient electromagnetic field method is made using these calculations. *(Scientific Advisor: Valeriy P. Gubatenko, Doctor of Physics and Mathematics, Professor)*

**Rybakova Anastasia, Terskov Andrey**

*Photodynamic Method of Blood-Brain-Barrier* *Opening*

Photodynamic treatment causes a significant increase in the permeability of the blood-brain barrier in healthy mice. Using different doses of laser radiation and photosensitizer, we found the optimal PDT for the reversible opening of the BBB, exhibiting brain tissues recovery 3 days after PDT. *(Scientific Advisor: Oksana V.* *Semyachkina-Glushkovskaya, Doctor of Biology, Associate Professor)*

**Evgeniya Tikeeva**

*Synthesis of Unsaturated 1,5-Diketones*

Economic and convenient: Iodic acid (HIO3) and iodine pentoxide (I2O5) form complexes with DMSO when heated at 80°C for 1 h. The complexes are efficient agents for the dehydrogenation of ketones and aldehydes at 45–65°C. *(Scientific Advisor:* *Nina V. Pchelintseva, Doctor of Chemistry, Professor)*

**Valeriya Vinogradova**

*Possibilities of Geomarketing Tools in Determining the Optimal Location of the Banking Department (on the example of the branch network of Sberbank, Saratov)*

The purpose of this study is to test various methods of geomarketing using GIS tools for the purposes of analyzing the spatial localization and expediency of the existence of Sberbank branches in Saratov.

In this paper, we analyze the experience of using GIS technologies in assessing the location of the bank branch, in particular, in order to optimize and operate the branch network. The possibilities of using the methods of geomarketing research for the convenience of the location of the departments are considered. Spatial and mathematical analysis of the location of branches is carried out using geomarketing methods. *(Scientific Advisor:* *Anna V.Molochko, PhD in Geograph*y**)**

**Panel Discussion 4: Computer Science & Economics (Building 12, Room 125)**

**10 April 2018, 14:15-16:15**

**Time-limit: 7 minutes**

*Chairpersons:*

***Klavdiya P. Vakhlaeva (****PhD in Physics and Mathematics, Assoc.Prof., Department* ***of Informatics and Programming****, SSU)*

***Dina A. Alexeeva*** *(Lecturer, Department of English and Intercultural Communication, SSU)*

***Nadezhda V.Sorokina*** *(Lecturer, Department of English and Intercultural Communication, SSU)*

***Anna A. Firsova (****Doctor of Economics, Prof., Department* ***of Finances and Credit****, SSU)*

**Darya Kalinovskaya**

*Foreign Experience of Service Quality Management at Public Catering Enterprises*

The article analyzes foreign experience in quality of service management and compares the management systems at public catering enterprises located in three different categories. Quality assurance tools and international quality standards are described.

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

**Anna Pogosyan**

*The insurance Activities in the Russian Federation Nowadays*

There are hundreds of newly established insurance companies in the Russian Federation nowadays that offer a wide range of services. The absence of the practice of voluntary insurance in our country has laid a strong stereotype in the behavior of economic entities, still believing that all extraordinary losses should be compensated by state sources.

The analysis of insurance specialists of the latest scientific publications shows that there is a demand among the employees of both newly created and existing long-term insurance companies for qualitatively new approaches about its functions and target orientation, also determining the place and role of insurance in the Russian economy organization of insurance practice. The logic of the current economic dynamics of the Russian Federation shows the necessity of the transition to a new type of insurance market. Its functional is used by the entire civilized world. The existence of a legislative framework regulating developing insurance relations acquires special significance in this process. There are about 3,000 insurance companies on the territory of the Russian Federation at this moment. Most of them appeared in the period from the early 1990s. – to the early 2000's. The report analyzes: the practice of companies fulfilling their obligations under insurance contracts; specialization and the most "popular" areas of the commercial activities of companies in the insurance business.

*(Scientific Advisor: Cyril V. Fenin (Assistant Prof., Department of Economic Theory and National Economy, SSU)*

**Darya Popova**

*How is the Blockchain Technology Going to Change Russian Economy?*

This article discusses how blockchain technology works, its practical use. It tells us about Russian companies, which have implemented this techology successfully. And about possible ways of blockchain development in Russian economy.

*(Scientific Advisor: Alexander N. Trubitsyn (PhD in Economic Sciences, Assoc. Prof., Department of Economic Theory and National Economics, SSU)*

**Viktor Artemov**

*Features of Development of Web-Oriented Client-Server Applications*

The presentation will cover the development of web-applications on the java platform, details of the application implementation with the help of the Spring framework, Bootstrap and jQuery technologies, and the quality indicators of the software implementation of the web application.

*(Scientific Advisor: E.V. Kudrina, PhD in Physics and Mathematics)*

**Ekaterina Bulavina**

 *Silt particle Movement in the Soil Profile based on the Theory of Movement of Elastoplastic Continuous Mediums.*

The article deals with the major aspects of the soil profile and provides the description of the mechanism of dispersion of particles in irrigation.

 *(Scientific Advisor* *Alexander S: Falkovich. Doctor of Physics and Mathematics, Professor, SSU)*

**Alexander Frolov**

*Modeling of Open Queuing Network for Enterprise Monitoring*

In this article open queuing network was modeled. Also this network’s main characteristics were calculated. This network intended for enterprise monitoring.

*(Scientific Advisor: Ekaterina S. Rogachko (PhD in Physics and Mathematics, Assistant Prof., SSU)*

**Orkhan Imran ogly Gasanov**

 *Applications of Machine Learning in the E-commerce*

E-Commerce in 21st century has become one of the fastest growing industries. It’s success involves taking in a massive amount of data and trying to make the best decisions based on those data sets. The ultimate challenge is in making sense of all of that data, and machine learning can help companies to achieve that. The article presents components of E-Commerce where Machine Learning may be applied.

*(Scientific Advisor* *Alexander S: Falkovich. Doctor of Physics and Mathematics, Professor, SSU)*

**Maksim Lomakin**

*Basic Concepts of Product Information Management*

The article describes the basic concepts of product information management systems, their processes, features, users and benefits from the implementation of PIM-systems in organizations.

*(Scientific Advisor: Victor G. Samoilov (PhD in Physics and Mathematics , Assoc. Prof., SSU)*

**Ilya Los**

*About Plots of Compatible Maps in Euclidean Hypercube*

This paper describes tool for creation plots for compatible maps in Euclidean hypercube. With that tool we could make hypotheses about measure of some compatible map.

*(Scientific Advisor: Livat B. Tyapaev (PhD inPhysics and Mathematics , Assoc. Prof., SSU)*

**Dmitriy Melnichuk**

*Modeling and Parallel Algorithms Analysis and Synthesis of Controlled Hybrid Dynamic Systems*

In mathematical modeling, the development of parallel algorithms and programs requires the use of adaptive algorithms of numerical analysis by dynamic balancing of computational load between processors.
An example is the analysis and synthesis of controlled technical systems containing interacting objects with spatially-centered parameters and objects with spatially distributed parameters on the basis of the apparatus of hybrid dynamic systems (HDS), i.e. mathematical models in the form of ordinary differential equations
(ODE) and associated with them by boundary conditions (BC) and communication conditions (CC) of partial differential equations (PDE) under the corresponding initial conditions (IC). Managed HDS depends on a set of real parameters of feedbacks. In the general case, the question remained open about the conditions for the analyticity of the characteristic and perturbing quasipolynomial polynomials in the right complex half-plane and near the imaginary axis. *(Scientific Advisor: Dmitriy K. Andreychenko (Doctor of Physics and Mathematics, Professor, SSU)*

**Rustam Shekhmametyev**

*Development of High-Loaded High-Performance Secure Services to Work With Geophysical Data Using ASP.NET and WITSML*

In this article, we examine development and architecture of a service to work with geophysical data. We also provide a short overview of used technologies, difficulties faced during development and achieved results.

*(Scientific Advisor: Dmitriy K. Andreychenko (Doctor of Physics and Mathematics, Professor, SSU)*

**Rushan Tugushev**

*Review of Algorithms Used in Computer Vision*

In this article algorithms used in computer vision are reviewed.

*(Scientific Advisor: Alexander A. Kuznetsov (PhD in Physics and Mathematics, Assistant Prof., SSU)*

**Alexander Vaniukov**

*Identification of Qualitative Parameters for Comparison of Load Balancing Algorithms*

In this article, the most popular load balancing algorithms for distributed and parallel computations are considered, and their comparative analysis is carried out, taking into account two typical load balancing: static and dynamic.

*(Scientific Advisor: Dmitriy K. Andreychenko (Doctor of Physics and Mathematics, Professor, SSU)*

**11 April 2018, 12:00-14:00**

***Poster Session Panel Members***

***Tatyana V. Skrob*** *(PhD in Linguistics, Lecturer, Department of English and Intercultural Communication, SSU),*

***Sergey V. Pyzonkov*** *( Senior Lecturer, Department of English and Intercultural Communication, SSU)*

***Aleksey A. Makhonin (****Master’s Degree Student, Department of Dynamic Modeling and Biomedical Engineering, SSU)*

**Poster Session: Natural Science 1 (Building 12, Room 125)**

**Pavel Arinushkin**

*The Analysis of Synchronous Modes in Linked Oscillators in the Power Grid*

The paper considers the key modes of operation of the power grid and investigated these regimes for stability, depending on various factors. As the investigated object, the effective network model is taken, which consists of three coupled oscillators. The main principle of studying the energy networks is to find stable modes of operation of synchronous engines of turbo and hydro generators represented in the form of coupled oscillators. To analyze and compare the regimes found, a numerical experiment was performed, taking into account two kinds of effects on the system: white Gaussian noise and a square pulse. In addition, we consider the stability of various regimes in the removal of bonds between oscillators. The paper shows that a system in which all oscillators are in a stable mode and their phase velocities are equal to each other is most resistant to the negative factors under consideration.

*(Scientific Advisor: Vadim S. Anishchenko, Doctor of Science, Professor)*

**Anna Gagarina**

*Influence of Micro Impurities on Character of Briggs–Rauscher Reaction*

The high sensitivity of the self-oscillatory reaction regime to the periodic action of white light is shown in the work. The dependence of the synchronization band on the magnitude of the light flux is given, the synchronization and frequency tightening frequencies of the concentration oscillations are determined with external light exposure.

*(Scientific Advisor: Andrey P. Rytik, Ph.D., Associate Professor)*

**Vadim Genin**

*Ex Vivo Investigation of the Geometrical Parameters Kinetics at the Skin Optical Clearing by Glycerol Solutions of Different Concentrations*

The change of geometrical parameters of rat skin ex vivo under the action of aqueous glycerol solutions with different volume concentrations has been experimentally studied. The analysis of kinetics of the variation of the studied parameters has allowed clarifying the mechanisms of glycerol impact on skin tissue. The results can find application in the development of new methods of noninvasive diagnostics and therapy of skin diseases

*(Scientific Advisor: Aleksey N. Bashkatov, Ph.D., Associate Professor)*

**Vladislav Khanadeev**

*Generalized Synchronization in Chaotic Systems with Two Positive Lyapunov Exponents*

The possibility of the generalized synchronization onset in chaotic systems characterized by two positive Lyapunov exponents is investigated. It is shown that for the chosen values ​​of the control parameters and the increase in the coupling strength between the systems sequential transition of two positive Lyapunov exponents in the negative field is observed. When both Lyapunov exponents become negative, the regime of generalized synchronization is detected in the system, that is confirmed by the method of the nearest neighbors, i.e. the quantitative measure of the degree of nearness of the states of the interacting systems turns out to be close to zero. At the same time, from the point of view of the behavior of the nearest neighbors, both systems behave themselves almost identically

*(Scientific Advisor: Aleksey A. Koronovski, Doctor of Science, Professor)*

**Dmitriy Kolosov**

*Formation of Lead-Acid Batteries by Asymmetric Current: New Circuit Solutions.*

This paper considers the problem of increasing the reliability and energy efficiency of the formation process of lead-acid batteries using the asymmetric current method. To this end, new schematic solutions have been proposed in order to improve the performance of existing battery-forming devices. The proposed solutions make it possible to reduce heat generation during molding, to reduce the gas mass fraction and the amount of power consumption, and also to increase the efficiency of the formation process itself. Owing to made transformations of the circuit, it was possible to solve the problem of stabilizing the charging current with increasing internal resistance of the battery. Varying the current-limiting resistors it is possible to form batteries of different nominal capacities by means of the developed circuitry modification.

*(Scientific Advisor: Olga E. Glukhova, Doctor of Physics and Mathematics, Professor, Department of Radiophysics and Electronic, SSU)*

**Anastasia Koloskova**

*Development and Approval of the Method for Calculation of Lyapunov Exponent Spectrum for Time-Delayed Systems*

A method for calculation of the spectrum of Lyapunov exponents for time-delated systems has been proposed and tested. With the help of the proposed method, the behavior of the spectrum of Lyapunov exponents depending on the control parameter has been studied for the time-delayed generator and the Mackey-Glass equation. The high method accuracy has been shown. It is assumed that the method will be used for other systems with time delay.

*(Scientific Advisor: Olga I. Moskalenko, Doctor of Science, Associate Professor)*

**Nikita Koronevsky**, **Roman Sergeev**

*Synthesis and Research of CaCO3 Microparticles Ggrown on Inorganic Nanofibers*

Two different methods for growing the microparticles of calcium carbonate with polymer nanofibers with and without including of magnetite nanoparticles were used in this investigation. The optimum concentrations of solutions of calcium chloride and sodium carbonate and the optimum time for stabilization of calcium carbonate were investigated.

*(Scientific Advisor: Sergey A. Sergeev, Ph.D., Associate Professor)*

**Sergey Markov**

*Erythrocytes Sedimentation Digital Recording and its Modeling as a Collective Process*

The red blood cells sedimentation process was investigated experimentally by means of digital photo recording. The blood cells dilution degree by saline was varied. Were performed 20 experiments for each RBC concentration with subsequent statistical computer processing of the resulting photoimages. It has been shown experimentally that blood dilution with saline increases the erythrocyte sedimentation rate. Was constructed an erythrocytes sedimentation theoretical model. The model peculiarity: erythrocytes sedimentation is not examined discretely (sedimentation of individual cells), but integrally (erythrocytes sedimentation in the form of cells layer). In this case, the blood layer was considered as a porous disk, for which the pores number and their sizes depend upon the blood dilution degree. The study is useful to understand the erythrocytes sedimentation process and for the acousto-optical method of blood group typing development.

*(Scientific Advisor: Valery V. Tuchin, Ph.D., Professor)*

**Andrey Ploskikh**

*Research and Development of a Sheet-Beam Traveling-Wave Tube (TWT) Multiplier with Output Frequency of 0.2 THz*

We present the results of design and simulation of the G-band frequency multiplier with a double grating SWS and sheet electron beam. The output and amplitude-frequency characteristics of the device are investigated.

*(Scientific Advisor: Tatyana A. Karetnikova, Ph.D., Associate Professor)*

**Kseniya Skripachenko**

*Personalized Computer Modeling in Cardiac Surgery*

Object of study: aortic valve and ascending aortic arch. The aim of the study was analysis of hemodynamics taking into account the stress-strain state of the tissue examined elements for a particular patient. Using data from computer tomography to recover the geometry of the investigated object and determining mechanical properties of biological tissues. Using the finite element method, a comparative analysis of hemodynamic parameters given stress-strain state of the tissues in norm and under pathology.

*(Scientific Advisor: Anastasiya A. Golyadkina, Ph.D., Associate Professor)*

**Olga Zyuryukina**

*Dynamics of Changes in the Optical and Physiological Biotissue Properties under External Mechanical Compression*

The external mechanical compression influence on the kinetics of the optical and physiological properties of human skin in vivo and a pig and a cow muscle tissue in vitro was studied by diffuse reflective spectroscopy.  The times of changes in the absorbing and scattering properties of the biotissue under compression determining the behavior of the biotissue reflection coefficients in the visible and NIR ranges of the spectrum were determined.

*(Scientific Advisor: Yuriy P. Sinichkin, Doctor of Science, Professor)*

***Poster Session Panel Members***

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

***Maksim Yu. Chervyakov****PhD in Geography,Assoc.Prof., Department of Meteorology and Climatology, SSU*

**Poster Session: Natural Science 2 (Building 12, Room 126)**

**Oksana Bokhina**

*European Badger (Meles Meles) on Saratov Right Bank (Population Structure, Abundance, Nutrition)*

The article represents the results of European Badger (Meles meles) research in 2011–2017. The demographic structure of the population is considered, the dynamics of abundance is determined, the badger nutrition is analyzed in the territory of the Saratov right bank.

*(Scientific Advisor: Vladimir A. Boldyrev, Doctor of Biology, Head of the Department of Botany and Ecology, Professor)*

**Yulia Gavrilova, Egor Kortov**

*Use of Automated Interpretation of Remote Sensing Data to Estimate the Area of Urban Green Plantations (Based on the Example of Saratov and Administrative Districts)*

The article considers the main principles of monitoring the state of green plantations in the urban environment on the example of Saratov and its administrative regions by deciphering space images and using special calculations – Nоrmаlizеd Diffеrеncе Vеgеtаtiоn Indеx

*(Scientific Advisor: Vladimir Z. Makarov., Doctor of Geography, The Head of the Department of Physical Geography and Landscape Ecology, Professor)*

**Tatyana Danilina, Anna Loseva**

*The Effect of Surface Plasmon Resonance of Silver Nanoparticles on the Fluorimetric Properties of Doxycycline and its Complex with Europium*

The effect of SPR caused by silver nanoparticles (AgNPs) on tetracycline fluometric properties is demonstrated. The modification of silver AgNPs by Eu3+ ions is found to increase the fluorescence signal significantly. The optimal conditions for obtaining the sensibilized fluorescence maximum signal are shown and its potential applications in drug analysis are highlighted.

*(Scientific Advisor: Tatyana D. Smirnova, Doctor of Chemistry, Professor)*

**Alexander Khorovodov**

*The Role of Stress and Nitrosamines in the Development of Gastric Cancer*

In our research we clearly show that only combination of two pro‐cancer factors such as stress and nitrosamines cause development of gastric cancer with metastasis in the liver while the presence of these factors alone contribute mucosal injuries without oncological changes in the stomach.

*(Scientific Advisor:* Oksana V. Semyachkina-Glushkovskaya, Doctor of Biology, Associate Professor)

**Taras Kochergin**

*Controllable Tuning Optical Properties of the Hollow Core Microstructured Waveguides by Nanodimensioned Polymer and Nanocomposite Coatings*

The polyelectrolytes and magnetite nanoparticles coatings were fabricated on the surface of hollow core microstructured waveguides (MSWs). The transmission spectra of MSWs modified with polymer and composite coatings were measured and analyzed. As a result the controllable red shift of MSWs spectra depended on molecular weight of polyelectrolyte and its layer number was demonstrated. The refractive index of coatings can be changed by incorporation of magnetite nanoparticles into polyelectrolyte layers. These results can be applied for precisely control over optical properties of MSWs after its fabrication and taken into account at R&D of MSWs based sensors.

*(Scientific Advisor: Irina Y. Goryacheva, Doctor of Chemistry, Associate Professor)*

**Alina Komissarova**

*Peculiarities of Reproduction of Brachypodium Pinnatum (l.) Breauv*

The article presents the results of the study of the reproductive peculiarities in Brachypodium pinnatum (L.) Breauv. The data on the growth of the plant in a various forest vegetation communities in the national park «Khvalynsky» (Saratov region) are given. It is established that B. pinnatum is characterized a sexual mode of seed reproduction and obligatory allogamy. Its reproductive strategy is based on the combination of vegetative and seed reproduction. The effectiveness of seed reproduction depends both on the degree of plants illumination, and the degree of the habitat humidification.

(Scientific Advisor: Olga I. Yudakova, Doctor of *Biology*, Head of the Department of Genetics, Professor)

**Elena Linkova**

*Fused (Benzo)Pyrroloimida(Oxa/Thia)Zolones, Synthesis and Chemical Properties*

The article presents an optimization of the conditions for the preparation of a wide range of substituted mono-, fused bi- and tricyclic compounds with two heteroatoms based on 4-substituted 4-oxobutanoic acid (and / or its ethyl esters) or 3H-furan-2-ones and binucleophiles both aliphatic and aromatic series. The chemical properties of imidazolidinones (protonation reactions of alkylation, acylation) have been studied. Conformational analysis of the compounds was carried out using the Frog2 program. It has been established that imidazolidinones are protonated, alkylated, acylated, cyanethylated by the imidazolidine nitrogen atom with preservation of the bicyclic structure.

*(Scientific Advisor: Alevtina Yu. Egorova, Doctor of Chemistry, Professor)*

**Yana Surkova**

*Сloud Cover over the Oceans and his Influence on the Earth’s Radiation Balance*

This article focused on analysis of latitudinal distribution of the Earth's radiation balance components using “Meteor-M” satellite data. Latitudinal distribution of albedo over the oceans at the top of atmosphere are investigated. The contribution of cloudiness to albedo was evaluated.

*(Scientific Advisor:* *Maksim Yu. Chervyakov, PhD in Geography, Associate Professor)*

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**SEKTION DEUTSCH**

**Tagungstag:** 11.04. 2018 (Mittwoch)

**Zeiten:** 12.00 – 15.00

**Tagungsort:** Saratower Staatliche Universität, Gebäude 7, Raum 410

**Vorsitzende:**  N. Generalowa

***Vorträge*** *(Redezeit 10 Minuten)* ***12.00 – 15.00***

***Vorträge 12.00 – 15.00***

 **Borisow Aleksey**

 Byzantinische Diplomatie

 **Satikjan Torgom, Sdobnowa Ksenija**

 Der Einfluss der Reformation in Europa auf internationale Beziehungen des Mittelalters

 **Kwas Anna**

 Pythagoreismus und moderne Schulen der Numerologie

 **Kordowa Alina, Nesterenko Cergey**

 Die Entstehung der Kontinente

 **Kusenok Ekaterina**

 DieApartheidfolgen in unserer Zeit

**Legkova Anastasija, Nikitina Anna**

Organisation verschiedener Wohn-und Betreuungsformen der älteren einsamen Menschen in Russland und Deutschland

**Oldenburg Alexander**

 Ethno-konfessioneller Konflikt auf dem Gebiet des ehemaligen Jugoslavien

 **Sabinina Julia**

 Jean Fourier: Leben und Werke

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*Для записей*