**SERVICE – MAINTENANCE SYSTEM**

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The article analyzes modern approaches to the definition of the service, separated by different areas of the service, such as: technical, technological, informational, etc. it is Proved that they all, in one way or another connected with the use of modern high-tech equipment. Allocated priority of technical service in the system of University training in service areas.

*Keywords:* modern economy, products, high technology, domestic market, organized by the technical service.

**Gas-pulse the working of the tool steel**

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The influence of working by the pulsatory gas flow on the structure and the mechanical properties of the thermally reinforced carbon and alloy tool steel in this work is examined.

*Keywords:* pulsating gas flow, mechanical properties, heat treatment, the tool steel.

**THE STUDY OF THE DEFORMATION PROPERTIES OF KNITTED FABRICS BY THE METHOD OF BIAXIAL STRETCHING**

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In the article the analysis of existing methods for the determination of deformation properties of knitted fabrics. A new method of estimating the deformation characteristics of paintings under biaxial tension and its application to design tight-fitting products.

*Keywords*: knitted fabric, an extensibility, service condition, method, biaxial tension, designing products

**APPROBATION OF METHODS OF BIOINDICATION OF**

**ATMOSPHERIC AIR IN THE CITY OF KALININGRAD**

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Some results of the bioindicator analysis of atmospheric air in the city of Kaliningrad are presented. The obtained data are compared with results of the state control of a condition of air in the region.

*Keywords:* atmospheric air, bioindication, Betula pendula R.

**REDUCTION OF SCALE DEPOSIT IN NETWORKS**

**OF WATER AND SEWER**

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The reasons of occurrence of scale deposit in networks of water and sewer are described. The mathematical model of movement of a stream of a liquid in a pipe with turbulator is considered.

*Keywords:* scale deposit, pipeline, turbulent conditions

**EFFECTS OF FREEZING ON SOME PROPERTIES OF CONSUMER Bracken Agro-Food AS KIND OF RAW MATERIALS**

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This article touched on the storage of young shoots of bracken fern. Freezing is a suggested storage method/

*Keywords*: bracken fern, young shoots, freezing; wetness, taste, color, odor.

**ENZYMATIC PROCESSES DURING STORAGE AND PROCESSING OF OILSEEDS IN THE** **PRODUCTION OF VEGETABLE OILS**

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Provides a review of studies of the enzyme complex oilseeds and results of research the changes in enzymatic activity of oilseeds during their processing and storage

*Keywords:* change, lipase, lipoxygenase, oilseeds, processing, sunflower, protease, soybean, enzymes, storage.

**DEVELOPMENT AND RESEARCH QUALITY BRINE CHEESE "OSSETIAN" WITH KELP**

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The paper presents materials on the use of kelp powder in the development of cheese brine "Ossetian". Given in the article the results of research have shown that the introduction of kelp powder does not impair the quality of the cheese, but slows down the proteolytic processes that occur during ripening pickled cheeses, which can be explained by the presence of inhibitory substances in the kelp.

*Keywords:* cheese, pickle, kelp, quality, ripening cheese, proteolysis, and minerals.

**STUDY OF QUALITY AND SAFETY** **OF MEAT, REALIZED ON THE MARKET OF ST. PETERSBURG**

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Quality of meat that is in realization has been studied on the organoleptic physical, chemical and safety parameters. The recommendations have been issued to the consumers how to choose most qualitative meat, based on the obtained results.

*Key words*: beef, porkand mutton,quality indicators.

MATHEMATICAL MODELING OF PROCESS OF HEAT TRANSFER IN VOLUME OF THE FROZEN PRODUCT IN STORAGE CONDITIONS IN TRADE REFRIGERATING APPLIANCES

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On the basis of experimental studies of posed and solved the boundary-value problem of heat conduction, which describes the temperature field in the volume of frozen food storage conditions in its commercial refrigeration equipment - refrigerated display cabinet. The analytical solution obtained makes it possible to determine the rate of cooling (heating), the lowest specific energy consumption in order to maintain the desired mode, and choose the optimal ratio of length of employment and off the chiller.

Keywords: modeling, the case show-window, the frozen product, step change of temperature of the environment.

**EFFICIENCY OF HEAT PUMP HEAT RECOVERY ROOM HEATING PLANTS**

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The problems of energy efficiency and conservation in the energy sector. To improve the efficiency of the heat pump is provided the use for the utilization of heat in the heating boiler.

*Keywords:* energy efficiency; energy conservation; heating; heat pumps

**WATER CONSUMPTION AT CATERING ESTABLISHMENTS AND A WAY OF ITS REDUCTION**

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Сalculations of a water consumption on production and economic domestic needs are given in catering establishments on the example of calculation of the public dining room with self-service on 100 places. The short review on recommendations is given to leaders to reduction of a water consumption. The structure of a water consumption is given.

*Keywords:* water supply, structure of a consumption of water, consumption rate, catering establishment.

**RESEARCH OF MATHEMATICAL MODEL OF PROCESS OF HIGH-SPEED FRICTION AND WEAR**

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The imitating model of high-speed friction and wear based on calculation of heating of a zone of contact of the sliding element and change of characteristics of its material – a razuprochneniya is developed. On the basis of imitating model the analysis of influence of various factors on change of characteristics of friction is carried out.

*Keywords:* friction, wear, heating, ablyation, surface temperature, material razuprochneniye, heatphysical parameters.

**FUNDAMENTALS OF LOGISTICS SERVICES, ROAD ASSISTANCE SERVICES**

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This article is devoted to the analysis and evaluation of logistic approach to the organization of the company activity Assistance.

*Keywords:* automotive assistance, logistic approach, the company management assistance.

THE TOURIST- RESOURCE POTENTIAL OF LENINGRAD REGION

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The basic questions, touched upon in the article are connected with further development of rural tourism in Russia

Кeywords: technical regulations, tourism, tourist- resource potential, Leningrad region

**SOCIAL TOURISM ORGANIZING IN KAMCHATKA REGION**

E.Yu. Sabanina

The article reviews social tourism organizing in Kamchatka region. The project of the University and regional tourist companies cooperation in organizing social excursion programs is studied. The importance of social tourism development to all the parties involved is considered.

*Keywords:* social tourism, University and regional tourist companies cooperation, socially important activity.

**INTERACTION OF THE SERVICES SECTOR WITH THE CHAIN OF COMMAND**

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In article the most important developments of economy at the present stage questions of state regulation of a services sector in the Russian Federation are considered.

*Keywords:* services sector, state regulation, kind of activity, dynamics of development, state interests.

**ENVIRONMENTAL ASPECTS OF SUSTAINABLE DEVELOPMENT IN THE ACTIVITIES OF TRADING COMPANIES**

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The article deals with the problem of integrating ecological aspects of sustainable development in the activities of commercial enterprises. Emphasis is placed on the analysis of the implementation of the principles of ecological self recoverability and dynamic adaptability of trading enterprises .

*Keywords:* Trading enterprise, sustainable development, corporate social responsibility, environmental responsibility, dynamic adaptability.

**MARKETING INNOVATION IN THE KNOWLEDGE ECONOMY: CURRENT STATUS, PROBLEMS AND PROSPECTS OF DEVELOPMENT**

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The analysis of the role and place of marketing innovation in the knowledge economy. It is shown that marketing innovations until enough are used to improve the competitiveness of enterprises. Recommendations on the use of marketing innovations in innovation development strategy.

*Keywords:* marketing innovation, information and communication technology, competitiveness.

**USING THE INSTITUTE TUTORING IN THE ORGANIZATION AND MANAGEMENT OF EDUCATIONAL PROCESS IN HIGH SCHOOL**

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Transition of higher education to meet the requirements of multi-level training of the labor market and the international trend-development wells. The introduction of new educational standards occurs increase the number of hours for independent work of students in extracurricular setting. In such circumstances, there is a need for tutoring - a special kind of mentoring, which performs the functions of self-support students, provide individual scientific management trainees from the teacher.

*Keywords:* student, tutor, self extracurricular work, teacher, supervisor.