



”Production, storage and processing of agricultural products”

The importance of providing food services in the opening statement was highlighted by General Director of “Mashinoexpert”, **Vladimir Makarov** - moderator of the session ”Production, storage and processing of agricultural products”. Those achievements in the domestic agribusiness industry which we have been observing in recent time, pale in comparison with those tasks that we have to solve in the near future, noted V.Makarov.

The work of the section was opened by **Boris Babakin**, Professor of the Moscow State University of Food Production. The main topic of the report was the development, production and introduction of refrigeration technology using electrophysical methods. Modern technology of Refrigeration is one of the main consumers of high-potential energy. The share of the refrigeration industry accounts for about 18% of global electricity consumption. The International Institute of Refrigeration has set the task of reducing the energy consumption of refrigeration systems by 30-50 % by 2020. One of the most effective methods in developing of energy-saving refrigeration equipment and technology is the use of electrophysical methods, based on using gas discharge processes – electro convection, corona, barrier and capacitive discharges and low temperature unbalanced plasma.

The technology of freeze-drying (vacuum drying under refrigeration) consuming a significant amount of refrigeration in food production was outlined by **Alexey Antipov**, Academician of the International Academy of Refrigeration. Food products of high quality with an extended storage period could be produced on basis of freeze-drying. Astronauts, military men, sportsmen, climbers and people of other professions are consumer of freeze-dried products. New types of products such as sublimated tea, honey, meat snacks, are emerging. For demonstration and tasting, the speaker presented meat snacks from various meats which raised a lively interest amongst participants of the Forum.

The development of the domestic agribusiness industry on the basis of support of farm business was proposed by **Oleg Zhurba**, Deputy Director of a non-profit organization Fund Proindustry.

Currently the main volume of food products in Russia is produced by large agriculture holdings. World practice shows that the share of farms in food production has to be about 60%. Farms are more resilient, could quickly rebuild to produce another type of products, with less cost and provide employment to the population. Also in his speech was described the structure of the farm and its technological equipment.

Valentin Karamzin, Professor, General Director of Agromash LLC, devoted his speech to the development of baby food production and introduced the concept of the program “Development of innovative technologies and equipment for the production of baby food”. He noted that on the domestic market foreign producers dominate. Products of foreign production cause complaints and doesn’t comply with the national security policy. The purpose of the concept is the achievement of a number of state policy objectives in the field of healthy nutrition of children. The implementation and replication of the created standard technical and technological solutions, taking into account the objectives of import substitution, will expand the assortment and production volume of baby food for all age groups

as well as for pregnant and lactating mothers. It was also noted that the production of baby food is beneficial and the approximate pay-bank period of a standard factory for the production of baby food is four years.

The development of the biotechnology industry was noted in the speech of *Tatyana Vasilyeva*, General Director of "Digital Technologies of Eurasia" LLC. The development of a new high-performance, environmentally friendly and commercially profitable resource-producing technology for the processing of waste, including agricultural waste, wood waste and waste from the petrochemical, metallurgical and mining industries. The creation of a new industry opens a way to a stable future of cheap renewable fuels, animal feed, building materials, fertilizer and other products.

Patrick Hoffmann, CEO, "Otrada Farms" Ltd, in his report, uncovered the modern opportunities of genetics and the problems of controlling sustainable food supply. This issue is directly related to the program of national security and the development of the concept of the health food industry.

At the conclusion of the session, the participants thanked the speakers and exchanged contacts for more information with a view to further mutually beneficial cooperation.

