

## The Kemerovo institute of technology of the food-processing industry

### HISTORY of the KemIFPI

**KemIFPI** conducts the history since 1972. Second half 1960th years in region the food-processing industry quickly develop. However activity of the existing enterprises and input of new industrial objects have been complicated because of shortage of experts with higher education. Therefore the high school where it would be possible to receive qualification of the engineer of the food-processing industry, was necessary for Kuzbass.

In the first years the institute in many respects was helped by the central high schools. In **KemIFPI** came to work the teachers who have finished{stopped} postgraduate study of the Moscow institute of the meat and dairy industry, the Leningrad institute of technology of the refrigerating industry, the Moscow institute of technology of the food-processing industry.

Protection of degree projects of 294 engineers of the food and meat and dairy industry took place in June, 1977 in structure of the first release have received a start in life. The first release of experts was the important stage in development of institute. **KemIFPI** has successfully taken place a way from the first reception of entrants before the first release of experts is there was an original examination to all collective of institute. In process of development of institute the number of graduates increased.

During reorganization of work of high school in 1980th have started talking about closer connection of education, manufacture and a science. Letting out faculties of high school have organized at the enterprises of corresponding branches where employment on research work were spent, laboratory, practical employment, an industrial practice, degree projects were protected.

From year to year quality improves and the volume of release of the published education-methodical literature increases. So, with 1999 the number published **KemIFPI** textbooks, approved for use in all high schools has increased from one edition in a year (1991-1998) up to seven.

The important stage in development of high school was introduction of the multistage education system focused on graduates of average special educational institutions which continuous vocational training provides consecutive passage of three steps of training: the qualified worker, the technical worker, the engineer.

For the organization of training under the multistage scheme in institute the Center of continuous vocational training of experts on June, 1990 has been created. The structure of the center included faculty of multistage preparation, and also educational institutions (lice and technical schools), not being divisions of high school - collective members of the center. In 1994 has occurred in structure of the Center of continuous vocational training the technical faculty has entered: on the basis of the order of the State committee of the Russian Federation on higher education the Kemerovo mechanical and technological technical school has been reorganized in structural division **KemIFPI** as technical faculty.

From the beginning of 1990th in **KemIFPI** preparation of bachelors and masters in directions «Technology of food stuff », «Technological machines and the equipment "Economy" began to be carried out.

### **KemIFPI TODAY**

For years of existence **KemIFPI** has grown in the versatile educational complex providing qualitative preparation of experts on a line of technical, technological and economic-administrative specialties. Today he is the leading center on a professional training for the enterprises food and processing and of some other industries of Siberia, the Far East, Urals Mountains and the CIS countries.

At present at 7 faculties and 33 faculties preparation on 19 specialties of the high school vocational training, 3 directions of a bachelor degree and 2 directions of a magistracy is conducted.

The high school has impressive personnel structure. Quantity of teachers - 450 person, including with degrees and ranks about 63 %.

From working in institute more than 40 professors 13 are members of the Russian socially-professional academies and of some the international academies. Among teachers honored workers of a science and technics of the Russian Federation, and also other spheres of activity. Among them there are those who has

awards: signs «The Honorable worker of higher education », «The Honorable chemist», «The Honorable worker of the high school vocational training ».

Today in **KemIFPI** (including regional representations) are trained about 10000 students, from them on the internal form - 5000 person, post-graduate students - more than 120 person.

During existence of institute the general release under all forms of training has made 21500 engineers and 2900 technical workers.

Material resources **KemIFPI** increases constantly and improved. Now the high school has, extensive park of the newest computer technical equipment, 4 educational cases, scientific and technical library, table, cafe, a sports complex, 4 student's hostels with the arranged well rooms of hotel type. In one of hostels the interuniversity sanatorium-dispensary is located. Construction of the fifth educational case is conducted.

Remote training actively develops in last years. The high school has opened representations in cities of Kuzbass (Novokuznetsk, Belovo, Leninsk-Kuznetsk, Yurga, Prokopevsk), and also in Novosibirsk and Tomsk areas, Altay territory.

The big attention by preparation of experts **KemIFPI** the expert gives the organizations to carrying out of every possible kinds. For passage of an industrial practice students leave on the enterprises of Siberian region, and also for his limits, including to Moscow and San - Petersburg.

It is important to note, that all letting out faculties of institute have bases and the scientifically-educational laboratories equipped by the modern equipment, on leading enterprises Kemerovo. To concrete manufacture considerably increases value of our graduates on a labor market.

### **SCIENCE in KemIFPI**

From the very beginning of existence in institute intensive scientific work was conducted. For this purpose there were serious preconditions: many teachers were invited to work in **KemIFPI** from scientific research institutes of Russia.

Directions of research works were determined by orders of the enterprises. First of all, it is creation of biologically high-grade food stuffs, development of new kinds of products with use of local raw material, the organization of a children's meal for the population of Siberia.

The second direction consisted in creation of new technological processes and the equipment in food industries with the purpose of improvement of quality of production, protection of an environment. According to a structure of institute the great bulk of research works has been focused on development of technologies in the food-processing industry, at the same time some scientists worked above adjacent problems. One of them - protection of an environment. Within the limits of the given program on faculty of the general and inorganic chemistry the technology of processing of waste of chemical manufacture is developed.

Scientific development **KemIFPI** actively take root into the industry. Since 1993 by means of scientists **KemIFPI** in the Kemerovo area at the enterprises of the food-processing industry it is introduced more than 65 new "know-how" of food stuffs.

From the end of 1980th **KemIFPI** becomes base high school on carrying out of National competition of student's works on natural, technical, to the humanities on section "Food-processing industry".

In 1985 in institute the Problem research laboratory on the basis of which in 1994 is created by scientific research institute of biotechnology and certification of food raw material and foodstuff is organized. For a number of years the scientific research institute works in close cooperation with institute of a meal of Russian Academy of Medical Science (Moscow). In 1999 of scientific research institute and faculty of biotechnology, development and research of the goods and examinations of foodstuff by one of the first together with administration of the Kemerovo area have developed the regional governor's program in the field of improvement of a meal and health of the population of Kuzbass «To health - through a meal» which is carried out within the limits of realization of the state concept «A Healthy meal of the population of Russia».

With 1990 the collective of institute works in close contact to the academic institutes and scientific institutes of the Russian Academy of sciences, including to institute of a meal, the Siberian branch of the Academy of sciences of the Russian Federation, Academy of technological sciences of the Russian Federation. During same time on the basis of **KemIFPI** the Kuzbass regional center of academy of engineering science of the Russian Federation has been formed. In 1995 on the basis of **KemIFPI** the Kuzbass regional branch of the International academy of a cold has been created.

Since 1997 work within the limits of won by faculty of physics (Osintsev A.M., Popov A.B is spent.) grants: German fund of the academic exchanges (DAAD) (Free university of Berlin) on a theme «Research of primary acts of photosynthetic reactions» and the Israeli University of Jerusalem on a theme «Computer modeling of reversible chemical reactions of carry of a proton in a liquid ».

In October, 2003 in **KemIFPI** at support of administration of the Kemerovo area has taken place the international symposium on a theme «Technological and economic aspects of maintenance of quality of production and services in trade and public catering» with participation of the Ministry of Education of the Russian Federation, the Ministry of the industry, a science and technology of the Russian Federations leading academic and the scientific research institutes, the food enterprises, bodies and the organizations interested in the decision of this problem, etc.

An available long-term experience has allowed to generate scientific schools in priority directions for region which are headed now by leading scientists of institute. In the field of engineering science scientific schools **KemIFPI** in following directions are known:

- Hardware registration of technological systems of manufacture of food stuffs and computer modelling of processes (Dr.Sci.Tech., professor Ivanets V.N.);
- Rational use of local raw material of a vegetative and animal origin at reception of food stuffs of mass consumption (the honored worker of a science, Dr.Sci.Tech., professor Ostroumov L.A.);
- Development of "know-how" of products of functional and treatment-and-prophylactic purpose on the basis of monitoring a meal of various groups of the population (the honored worker of a science, Dr.Sci.Biol., professor Poznjakovskij V.M.);
- Development of modern technologies of use of natural ceolites for improvement of quality and safety of food stuffs (Dr.Sci.Tech., professor Horunzhina S.I.);
- Development of modern and highly effective technologies of clearing of potable water (Dr.Sci.Tech., professor Krasnova T.A.).

**KemIFPI** is one of founders of the Kuzbass regional is innovative-technological center who is created for acceleration of development and realization of effective innovations in public catering and food branches of region.

Scientific researches **KemIFPI** are conducted in close cooperation with the Russian academy of agricultural sciences, with the Russian academy of medical sciences, many other things public academies. Employees of institute participate in the international, federal and regional programs on various problems of a national economy. The Most part of researches of scientists of institute is concentrated to actual problems of food industries.

The international connections of institute develop. Our scientists work above actual scientific problems in common with experts of near and far abroad.

Now researches within the international grant in Institute of molecular physics Berlin (Germany) and the Israeli University of Jerusalem proceed.

Performance by students of research works is a stage, allowing to continue researches in the given direction on the basis of postgraduate study **KemIFPI**. Preparation of post-graduate students is conducted on 16 specialties. In institute 2 dissertational councils on protection doctor's and master's theses work.

For development of a student's science connection with manufacture has large value. It includes the organization of an industrial practice of students at the food enterprises, the invitation for meetings with students of skilled experts of the industry, performance real degree and academic year projects, creation of laboratories and branches of faculties at the enterprises.

### **SPORTS in KemIFPI**

Physical training - an integral part of formation of the general and professional culture of the person of the modern expert. For the organization and carrying out of sports work the institute has the modern sports complex including 3 sports halls, a skiing lodge, stadium with a football field and a racetrack, platforms for game kinds of sports.

**KemIFPI** many outstanding sportsmen have finished. For example, Jacov Tolstikov - the deserved master of sports, a member of a combined team of the country on marathon race, the owner of the Cup of the World (London, 1991); Natalia Shive (Glebova) - the master of sports of the international category, the bronze prize-winner of Olympic Games to Sarajevo, champions of the country in sprinter multiathlon on skates; Andrey Tikhonov - the master of sports of the international category, a member of the modular country on track and field athletics, the participant of Olympiad in Barcelona (1992), the championships of the Europe.

### **CULTURE in KemIFPI**

One of the most important directions of activity **KemIFPI** is creation of conditions for creative development and self-expression of students. For this purpose in **KemIFPI** the Student's club is organized. On the basis of student's club dancing Collective "Bravo" is created. In 2004 "gallantly" became the winner of Festival of modern dance, «The Grace-2004 »; the winner of competition «Days of Energy » which took place on Mountain Altai.

### **EMPLOYMENT OF GRADUATES**

Today sphere of manufacture of food stuffs - one of the most developed and profitable branches in Russia. The number of the enterprises of the food-processing industry makes 16 % (24750) from the general number of the industrial enterprises. The annual volume of a food industrial output according to Goskomstat makes about 12 % (687371 million rbl.) from total amount of an industrial output . In territory of Urals Mountains, Siberia and the Far East at present operates more than 2000 enterprises of the food-processing industry on which work about 126 thousand person. Continuous development of food branch conducts to growth of number of its enterprises. It, in turn, increases quantity of vacancies for experts - the food-processing industry. Therefore demand for graduates **KemIFPI** increases every year.

For rendering support in employment of graduates in **KemIFPI** creation the Center of assistance of employment of a studying youth and to employment of graduates. Applications for graduates **KemIFPI** come more than from 200 enterprises of the Russian Federation. Technologists of the dairy industry, baking, macaroni and confectionery manufacture invite to work the enterprises of Samara, Krasnoyarsk, Tyumen areas, Altay territory, Ussuriisk as their heads too once studied in **KemIFPI**. Among them and a public catering establishment.

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