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THE APPLIED RESEARCHES FINANCING DIRECTION  
"COGNITIVE MODELING IN THE NATURAL SCIENCES" ("NEN")  
OF "THE SF "SFA CMT" NAMED AFTER N.A. PROKOPENKO" (PART 4)

The developed "The applied researches financing direction "Cognitive modeling in the natural sciences" ("NEN") treats to the applied researches financing divisions of "The scientific fund "System and financial analysis based on cognitive modeling technology" named after N.A. Prokopenko" ("The SF "SFA CMT" named after N.A. Prokopenko" – The SF) as the first SF in structure of "The SIO "Academy of cognitive natural sciences" ("The SIO "ACNS""), an additional component of science and education system of the modern country for the financing of creation, distribution and use of the applied main and derivative scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru) [see the applied researches financing directions and departments of The SF]:

- 1) it is executed by the principle of "administrative-economy submission";
- 2) works in several main directions, which allow to provide the financing of development, production and promotion of the applied main and derivative scientific results (my second report on SRW from 2006-2008(9) y. was submitted to "The SPbSETU "LETI" and The Government of The RF for the translation, carrying out of int. action and receiving of "The Nobel Prize");
- 3) includes several various main divisions:

VII. "The applied researches financing department "The applications of the theoretical and experimental physics, geo-physics, power engineering, electrical engineers, electronics and radio engineering, nuclear physics, technics and instrument making" ("SF") (\*)

***the financing of applied researches and developments in area "A p p l i c a t i o n s o f p h y s i c s" (\*)*** – usage of theory of general problems of physical experiment, usage of theory of physics of elementary particles, usage of theory of fields (united theory of field), usage of theory of high energy physics, usage of theory of nuclear physics, usage of theory of physics of gases and liquids, usage of theory of thermo-dynamics and statistical physics, usage of theory of physics of firm bodies, usage of theory of physics of plasma, usage of theory of physics of atom and molecule, usage of theory of optics, usage of theory of laser physics, usage of theory of physical bases of electronics, usage of theory of acoustics, usage of theory of cognitive modeling technology in applications of physics, usage of theory of cognitive models of interaction between elementary particles and firm bodies, fields, liquids and gases, usage of theory of cognitive model of modified volumetric planetary model of atom named after N.H.D. Bor, usage of theory of cognitive models of temperature areas of plasma of atom and molecule, usage of theory of cognitive model of optical environment of eye, usage of theory of cognitive model of acoustical environment of ear, usage of theory of cognitive model of waves distribution in environment;

***the financing of applied researches and developments in area "A p p l i c a t i o n s o f g e o - p h y s i c s" –*** usage of theory of geo-magnetism in high layers of atmosphere, usage of theory of meteorology, usage of theory of climatology, usage of theory of oceanography, usage of theory of hydrology of land, usage of theory of glaciology, usage of theory of physics of The Earth, usage of theory of cognitive modeling technology in applications of geo-physics;

***the financing of applied researches and developments in area "Applications of power engineering"*** – usage of theory of power resources, usage of theory of power balance, usage of theory of electrical-power industry, usage of theory of heating-power industry, usage of theory heating engineering, usage of theory of atomic engineering, usage of theory of water-power engineering, usage of theory of gelio-energetics, usage of theory of wind-energetics, usage of theory of direct transformation of energy, usage of theory of cognitive modeling technology in applications of power engineering;

***the financing of applied researches and developments in area "Applications of electrical engineering"*** – usage of theory of electrical-technical engineering, usage of theory of electrical-technical materials, usage of theory of electrical machines, usage of theory of electrical devices, usage of theory of transformers, usage of theory of electrical reactors, usage of theory of power electrical condensers, usage of theory of power converting technics, usage of theory of electrical drive, usage of theory of electro-thermics, usage of theory of electro-welding equipment, usage of theory of wire and cable, usage of theory of electrical isolators, usage of theory of light engineering, usage of theory of electrical-technical equipment of special purpose, usage of theory of cognitive modeling technology in applications of electrical engineering;

***the financing of applied researches and developments in area "Applications of electronics and radio engineering"*** – usage of theory of theoretical bases of electronical technics, usage of theory of radio engineering, usage of theory of materials for electronics and radio engineering, usage of theory of technology and equipment for electronical and radio-technical engineering manufacture, usage of theory of designing and constructing of electronical devices and radio-electronical equipment, usage of theory of electro-vacuum and discharge devices and units, usage of theory of accelerators of charged particles and plasma, usage of theory of solid-state devices, usage of theory of quantum electronics, usage of theory of holography, usage of theory of cryo-electronics, usage of theory of radio-electronical circuits, usage of theory of radio-waves distribution, usage of theory of antennas, usage of theory of wave transports, usage of theory of elements of micro-wave technics, usage of theory of radio-transmission and radio-receiving devices, usage of theory of radio-technical systems of sounding, locations and navigation, usage of theory of television technics, usage of theory of record and reproduction of signals, usage of theory of electrical-acoustics (theory of waves distribution in environment), usage of theory of ultra-sonic and infra-sonic technics, usage of theory of infra-red technics, usage of theory of units, details and elements of radio-electronical equipment, usage of theory of devices for radio-technical measurements, usage of theory of systems and units of information display, usage of theory of cognitive modeling technology in applications of electronics and radio engineering;

***the financing of applied researches and developments in area "Applications of nuclear technics and instrument making" (\*)*** – usage of theory of nuclear raw materials and fuel, usage of theory of synthesis of isotopes, usage of theory of isotopes and ionization radiations, usage of theory of nuclear reactors, usage of theory of thermo-nuclear reactors, usage of theory of action of radiations and protection against them, usage of theory of nuclear explosions, usage of theory of processing of nuclear fuel and waste disposal, usage of theory of cognitive modeling technology in applications of nuclear technics and instrument making, usage of theory of cognitive models of structure of chemical elements with 1, 2, 3, 4, 5 and more nucleus, usage of theory of cognitive model of modified volumetric principle named after W.E. Pauli for studying electronical clouds within limits of power levels, usage of theory cognitive model of modified planetary model of atom named after N.H.D. Bor and others].

VIII. "The applied researches financing department  
"The applications of the (non)organic chemistry, crystallography,  
mineralogy and chemical industry" ("SH") (\*)  
[*the financing of applied researches and developments in area*  
*"Applications of chemistry" (\*)* –  
usage of theory of basic-laboratory chemical equipment and units,  
usage of theory of physical chemistry, usage of theory nonorganic chemistry,  
usage of theory complex compounds,  
usage of theory of analytical chemistry, usage of theory organic chemistry,  
usage of theory of bio-organic chemistry,  
usage of theory of natural organic compounds and their synthetic analogues,  
usage of theory of chemistry of high-molecular compounds,  
usage of theory of biological chemistry,  
usage of theory of cognitive modeling technology  
in applications of chemistry,  
usage of theory of modeling of structure of (non)organic chemical elements  
and chemical elements with 1, 2, 3, 4, 5 and more nucleus;  
*the financing of applied researches and developments in area*  
*"Applications of chemical technology and chemical industry"* –  
usage of theory of processes and devices of chemical technology,  
usage of theory of chemical raw material,  
usage of theory of technology of production of nonorganic substances and products,  
usage of theory of fertilizers manufacture,  
usage of theory of technology of production  
of silicate and refractory nonmetallic materials,  
usage of theory of industrial organic synthesis,  
usage of theory of industrial synthesis of organic dyes and pigments,  
usage of theory of technology of production of photographic materials,  
usage of theory of technology of production  
of explosive substances and means of chemical protection,  
usage of theory of storage and destruction of chemical weapon,  
usage of theory of technology of production of chemical-pharmaceutical means,  
usage of theory of technology of production of fragrant substances,  
usage of theory of technology of production of pesticides and disinfectant substances,  
usage of theory of processing of natural gas, oil, gas condensate,  
their products and analogues, motor fuel, lubricant materials,  
usage of theory of technology of processing of firm combustible minerals,  
usage of theory of forestry-chemical manufactures,  
usage of theory of technology of production  
of natural high-molecular compounds,  
usage of theory of technology of production  
of synthetic high-molecular compounds,  
usage of theory of technology of production of plastic,  
usage of theory of technology of production of rubbers and products from them,  
usage of theory of technology of production  
of paint-varnish materials and organic coverings,  
usage of theory of technology of production of chemical fibers and strings,  
usage of theory of technology of production  
of chemical reactants and especially clean substances,  
usage of theory of technology of production of household chemical goods products,  
usage of theory of technology of production of auxiliary materials,  
usage of theory of cognitive modeling technology  
in applications of chemical technology and chemical industry].

The applied researches financing directions and departments of The SF  
allow to the financing of development, production and promotion  
of the applied main and derivative scientific results of CMT.