Vetrov Anatoly Nikolaevich, author of the unique cognitive modeling technology www.vetrovan.(spb.)ru

The RF, Saint-Petersburg city

THE APPLIED RESEARCHES FINANCING DIRECTION "COGNITIVE MODELING IN THE NATURAL SCIENCES" ("NEN") OF "THE SF "SFA CMT" NAMED AFTER N.A. PROKOPENKO" (PART 3)

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"); includes several various main divisions: V. "The applied researches financing department "The applications of the models, methods and technologies of the geology of oil and gas and oil and gas industry" ("SNG") [the financing of applied researches and developments in area "Applications of geology of oil and gas" – usage of theory of lithology, usage of theory of tectonics, usage of theory of geological-geo-physical researches of deep structure of The Earth, usage of theory of regional geology of deposits, usage of theory of planetology, usage of theory of stratigraphy, usage of theory of paleontology, usage of theory of geo-chemistry, usage of theory of mineralogy, usage of theory of petrography, usage of theory of experimental and technical mineralogy and petrography oil, natural a n d passing usage of theory of methods of mineral-petrographical and geo-chemical laboratory researches, of theory of anthropogenic period, usage of theory of neo-tectonics, usage of theory of geo-morphology, usage of theory of geology of fields of oil, gas and their condensates, usage of theory of methods of search and investigation of fields of oil and gas, usage of theory of technics and technology of geological-prospecting works, usage of theory of hydro-geology, usage of theory of engineering geology of oil and gas, usage of theory of frozen condition of ground of deposits, usage of theory of cognitive modeling technology applications of geology of oil and

the financing of applied researches and developments in area "Applications of oil and gas industry" usage of theory of processes and devices of oil and gas technology, usage of theory of oil and gas raw material, usage of theory of technology of nonorganic substances and products n a t u r a 1 a n d passing usage of theory of technology of production of fertilizers from oil and gas, usage of theory of technology of production of silicate and refractory nonmetallic materials from oil and gas, usage of theory of industrial organic synthesis, usage of theory of industrial synthesis of organic dyes and pigments from oil and gas, usage of theory of technology of production of photographic materials from oil and gas, usage of theory of technology of protection against explosions and means of chemical protection of oil and gas technology, usage of theory of technology of production of chemical-pharmaceutical means from oil, natural and passing gas, usage of theory of technology of production of fragrant substances from oil and gas, usage of theory of technology of production of pesticides and disinfectant substances from oil, natural and passing gas, usage of theory of technology of refining of oil, natural and passing gases and their condensates, their products and analogues, motor fuel and lubricant materials from oil and gas, usage of theory of technology of production of natural high-molecular compounds oil, natural and passing usage of theory of technology of production of synthetic high-molecular compounds from oil and gas, usage of theory of technology of production of plastics, rubbers and products from oil, natural and passing gas, usage of theory of technology of production of paint-varnish materials and organic coverings from oil and gas, usage of theory of technology of production of chemical fibers and strings from oil and gas, usage of theory of technology of production of chemical reactants and especially clean substances from oil and gas, usage of theory of technology of production of household chemical goods and auxiliary materials oil, natural and passing usage of theory of cognitive modeling technology in applications of oil and gas industry].

VI. "The applied researches financing department VI. "The applied researches financing department "The applications of the system analysis based on cognitive modeling technology, prediction, standardization, unification and complex problems of exact technical sciences"" ("SSAP") (*) [the financing of applied researches and developments in area "Applications of the system analysis of the system analysis" (*) usage of theory of tendencies, dependences and laws of the system analysis of objects, processes and phenomena, usage of theory of cognitive modeling technology with dynamic cloning, verification and subverification, usage of theory of iterative cycle and technique of use of cognitive models of cognitive models block for the system analysis of information-educational environments and increase of efficiency of functioning of automated training system with properties of adaptation based on cognitive models (cognitive models of subject of training and means of training), usage of theory of ways of representation of structure of cognitive models and difficult problem environments: formal classical of the 0th generation (logical and production models), nonformal classical of the 0th generation (logical and production models), nonformal new of the 0th generation (semantic network, frame network and ontology), formal new of the 0th generation (cognitive circle and cognitive disc), volumetric of the 1st generation (cognitive circle and cognitive sphere), flat and volumetric of the 2st generation (cognitive circle and cognitive sphere), flat and volumetric of the 2st generation (cognitive cone and cognitive sphere), they id of the 3st generation (combinations of the existing cognitive models). "The applications of the system analysis based on cognitive modeling technology, cognitive disc, cognitive cylinder, cognitive cone and cognitive sphere), hybrid of the 3rd generation (combinations of the existing cognitive models), usage of theory of algorithm of formation of cognitive model structure, usage of theory of technique of research of cognitive model parameters, usage of theory of algorithm of analysis of a posteriori results of research, usage of theory of a daptive automation means of information of each tion means of information on education allenvironments of means of information of electronic textbook, laboratory practical work, electronic dean, electronic library and others). laboratory practical work, electronic dean, electronic library and others), usage of theory of technical means of support of adaptive information interaction (adaptive representation of sequence of information fragments processor, question-answers structures sequence processing processor, linguistical processor and other processors), usage of theory of statistical substantiation of practical use of received results, usage of theory of factors influencing to efficiency of knowledge formation in information-educational environment and efficiency of productivity of functioning of difficult objects, processes and phenomena, usage of theory of organization and plan of carrying out of experiment, usage of theory of research of cognitive models parameters, usage of theory of preliminary processing of a posteriori results of diagnostics, usage of theory of analysis of dynamics of productivity of training, usage of theory of dispersion, regression, discriminant, cluster analysis, multivariate scaling, factor analysis, bibliographical lists; the financing of applied researches and developments in area "Application, factor analysis, bibliographical lists; the financing of applied researches and developments in area "Application, of systems and services of standardization, usage of theory of systems and services of standardization, usage of the ory of cognitive modeling technology (adaptive representation of sequence of information fragments processor, usage of theory of cognitive modeling technology in applications of standardization. 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.