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THE APPLIED DEVELOPMENTS DIRECTION “COGNITIVE MODELING IN THE NATURAL SCIENCES” (“NEN”) OF “SRI "SFA CMT" OF "RA(N)S" N. A. VENIAMINOV V.N.” (PART 2)

The developed “The applied developments direction "Cognitive modeling in the natural sciences"” (“NEN”) treats to the applied developments divisions of “The scientific-research institute "System and financial analysis based on cognitive modeling technology" of "RA(N)S" named after Veniaminov V.N.” (“SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N.” – SRI) as the first SRI in the structure of “SIO "Academy of cognitive natural sciences"” (“SIO "ACNS"”) and the add. component of the system of science and education of the modern country for the creation, distribution and use of the main and derivative scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru) [see the applied developments directions and scientific-researches laboratories of SRI]: 1) it is executed by the principle of “administrative-economy submission”; 2) works in the several main directions, which allow to provide the development of the applied main and derivative scientific results (my second report on SRW from 2006-2008(9) y. was submitted to “SPbSETU "LETI"” and “The Government of RF” for the translation, carrying out of int. action and receiving of “The Nobel prize”); 3) includes the several various main divisions: III. “The scientific-researches laboratory "Applications of geo-chemical ecology and preservation of environment"” (“SNOS”) [***the applied developments in the area “Applications of preservation of environment and ecology”*** – usage of theory of the methods of studying of the preservation of environment of the person and animals, usage of theory of the ecological bases of use of the natural resources, usage of theory of international cooperation, usage of theory of environmental contamination of the person and animals, usage of theory of the control of pollution and protection of atmosphere, waters of land, seas and oceans, usage of theory of the protection of soils and bowels, usage of theory of the ecological bases of ability-to-live of the organic individuals, usage of theory of influence of anthropogenic changes of environment on health and activity of organic individuals, on epy condition of natural ecosystems, populations and organisms of vegetative and generative world, usage of theory of the protection of vegetative and generative world of the person and animals, usage of theory of anthropogenic influence on landscape, usage of theory of the protection and optimization of landscape, usage of theory of nature reserve, usage of theory of protected natural territories and water-areas, usage of theory of nature acts and accidents of anthropogenic origin, usage of theory of ecological safety, usage of theory of the rational use and reproduction of natural resources, usage of theory of the preservation of environment and natural resources in the separate regions and countries, usage of theory of waste management, usage of theory of small waste and without waste technology, usage of theory of protection of organic individuals against noise, vibration, electric and magnetic fields and radiations, usage of theory of the cognitive modeling technology in the applications of preservation of environment and ecology].

“The Nobel committee” (The Kingdom of Norway and The Kingdom of Sweden)
(it was submitted to “SIO "ACNS"” on the int. conf. “IQR and D in MO: CA” on the 01st-31st of October 2016 y.)

IV. “The scientific-researches laboratory "Applications of the models of The Earth and The Solar system planets in geography, geology, geodesy and cartography, astronomy and other sciences"” (“SNZ”) (*) [***the applied developments in the area “Applications of geography”*** – usage of theory of geography, usage of theory of historical geography, usage of theory of military geography, usage of theory of physical geography, usage of theory of economic and social geography, usage of theory of country-(regional)-geography-science, usage of theory of medical geography and toponymics, usage of theory of the cognitive modeling technology in the applications of geography; ***the applied developments in the area “Applications of geology”*** – usage of theory of lithology, usage of theory of tectonics, usage of theory of geological-geo-physical researches of the deep structure of The Earth, usage of theory of regional geology, 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, usage of theory of the methods of mineralogical-petrographical and geo-chemical laboratory researches, usage of theory of anthropogenic period, usage of theory of neo-tectonics, usage of theory of geo-morphology, usage of theory of geology of ore minerals, usage of theory of geology of nonmetallic minerals, usage of theory of geology of the fields of oil, gas and its condensates, usage of theory of geology of the deposits of coal, bituminous breeds and peat, usage of theory of the methods of search and investigation of the deposits of minerals, usage of theory of technics and technology of geological-prospecting works, usage of theory of hydro-geology, usage of theory of engineering geology, usage of theory of frozen condition of ground, usage of theory of the cognitive modeling technology in the applications of geology; ***the applied developments in the area “Applications of geodesy and cartography”*** – usage of theory of supreme geodesy, usage of theory of geodesy, usage of theory of aerial-survey and photogrammetry, usage of theory of topography, usage of theory of photo-topography, usage of theory of cartography, usage of theory of selenodesy, usage of theory of planetodesy, usage of theory of mappings of The Moon and planets, usage of theory of the cognitive modeling technology in the applications of geodesy and cartography; ***the applied developments in the area “Applications of astronomy” (*)*** – usage of theory of astronomy, usage of theory of heavenly mechanics, usage of theory of astrometry, usage of theory of astro-physics of The Solar system, The Earth, The Sun, stars, fogs, interstellar environment and star systems, usage of theory of cosmology, usage of theory of observatories, tools, devices and methods of astronomical supervisions, usage of theory of the cognitive modeling technology in the applications of astronomy, usage of theory of the cognitive models of the gravitational and other interactions between 1, 2, 3, 4, 5 and more artificial space objects, satellites, planets, The Earth and The Sun, usage of theory of the cognitive models of the work of the basic rocket engine, the first, the second, the third and the fourth rocket engine of the launch vehicle and others].

The applied developments directions and scientific-researches laboratories of SRI allow to develop the main and derivative scientific results of CMT.