

“The XIII<sup>th</sup> international scientific-practical conference

"Actual problems of economics and new technologies of teaching (Smirnov readings)" on the 22<sup>nd</sup> of March 2014 y.

**The theme of scientific report:**

2. *“The fundamental scientific researches (financing) exhibitions divisions*

*(at the microscopic level)*

*of “SPbEC n. a. Brezhnev L.I.” at “EAST n. a. Sobchak A.A.”””*

3. *“The applied scientific researches*

*(financing) exhibitions divisions*

*(at the microscopic level)*

*of “SPbEC n. a. Brezhnev L.I.” at “EAST n. a. Sobchak A.A.”””*

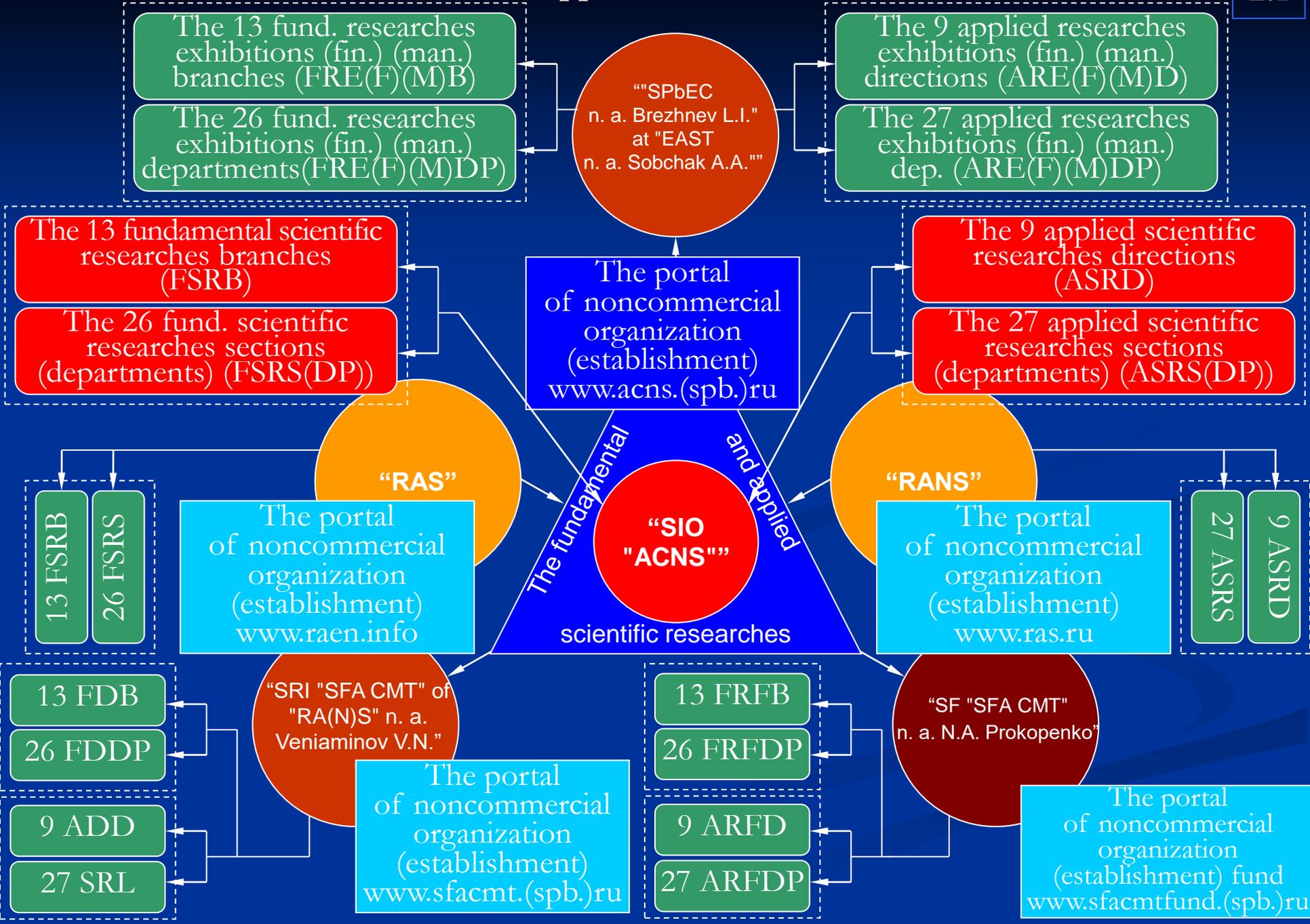
*The section “Educational politics and new technologies of teaching”*

The reporter: the author of the unique cognitive modeling technology on spec. 01.02.01, 05.13.01, 05.13.10, 19.00.03, 08.00.10 Vetrov A.N.

The Russian Federation, Saint-Petersburg city, 2014 y.

# The fundamental and applied scientific researches divisions

2.1



# The fundamental scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences") (F1)

1. The fundamental scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.1. FRE(F)B – the fundamental researches exhibitions (fin.) branch [see FD(SR – the scientific researches)EB – the fundamental developments exhibition branch] "Cognitive modeling in the mathematical sciences" ("OMN")

A.1.1. FRE(F)DP – the fundamental researches exhibitions (fin.) department [see FDDP – the fundamental developments department (FSRS – the fundamental scientific researches section)] "The (development of) theory of the mathematics and the complex system analysis based on CMT" ("SM")(\*)

A.1.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the cybernetics and (cognitive) informatics" ("SPMI")(\*)

A.2. FRE(F)B[FD(SR)B] "Cognitive modeling in the physical sciences" ("OFN")

A.2.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the physics, astronomy and space researches" ("SOFA")(\*)

A.2.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the nuclear physics and physics of nucleus kernel" ("SYF")(\*)

Tasks and problems at the micro level

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS") at the realization stage

# The fundamental scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchak" ("SIO "Academy of cognitive natural sciences") (F2)

1. The fundamental scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.3. FRE(F)B[FD(SR)B] "Cogn. modeling in the nano-technologies and information technologies" ("ONIT")

A.3.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the electronics, radio-engineering and connection" ("SVLTSEB")(\*)

A.3.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the automatics, computer engineering and the system analysis based on the cognitive modeling technology" ("SITA")(\*)

A.3.3. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the nano-technologies for the mechanical-engineering, instrument-making, polygraphy, reprography and foto-cinema-technics, easy and food-processing industry, transport, architecture and construction" ("SNT")(\*)

Tasks and problems at the micro level

A.4. FRE(F)B[FD(SR)B] "Cognitive modeling in the exact sciences" ("OEMMPU")

A.4.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the (theoretical) mechanics and gyroscopes" ("SM")(\*)

A.4.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the mechanical-engineering, instrument-making and metrology" ("SPMPU")

A.4.3. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the power-engineering and electrical-engineering" ("SE")

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS") at the realization stage

# The fundamental scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences"") (F3)

1. The fundamental scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.5. FRE(F)B[FD(SR)B] "Cognitive modeling in the industry and chemical sciences" ("OHNM")

A.5.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the easy, food, wood and wood-processing industry, the architecture and constructions, the agricultural, wood, water, fish economy and aqua-culture" ("SNM")(\*)

A.5.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the chemistry, chemical technology and chemical industry" ("SCHN")

Tasks and problems at the micro level

A.6. FRE(F)B[FD(SR)B] "Cognitive modeling in the biological sciences" ("OBN")

A.6.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the biology and pharmacology" ("SOB")

A.6.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the physical-chemical bio-technology" ("SFCHB")(\*)

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS"") at the realization stage

# The fundamental scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences") (F4)

1. The fundamental scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.7. FRE(F)B[FD(SR)B] "Cognitive modeling in the physiology, fundamental medicine and public health service" ("OFFM")

A.7.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the physiology, bio-physiology and private physiology" ("SF")

A.7.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the medicine, public health services, labor safety, environment preservation and ecology of person" ("SFM")(\*)

Tasks and problems at the micro level

A.8. FRE(F)B[FD(SR)B] "Cognitive modeling in the sciences about The Earth" ("ONZ")

A.8.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the geo-physics, geology, mining and metallurgy" ("SGGGGN")

A.8.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the oceanology, structure and physics of atmosphere, geodesy, cartography and geography of The Earth and planets" ("SOFAG")

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS") at the realization stage

# The fundamental scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences") (F5)

1. The fundamental scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.9. FRE(F)B[FD(SR)B] "Cognitive modeling in the social sciences" ("OON")

A.9.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the social sciences, philosophy, science-study, politics and political sciences, sociology, (cognitive) psychology, state, law and jurisprudential sciences, patenting business, invention and rationalization work" ("SFPSPP")(\*)

A.9.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the economics and economic sciences, organization, management, statistics and the financial analysis based on the cognitive modeling technology" ("SE")(\*)

Tasks and problems at the micro level

A.10. FRE(F)B[FD(SR)B] "Cognitive modeling in the global problems and international relations" ("OGPMO")

A.10.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the demography, pedagogics and national education, standardization, complex studying of separate countries and regions, general and complex problems of natural, exact, technical, public, applied sciences and manufacture branches" ("SGP")

A.10.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the culture and cultural science, art and art science, mass communication, journalism and mass media means, religion, internal trade and tourist-excursion service, external trade, transport, housing-communal services, housekeeping and consumer services at the international level" ("SMO")

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS") at the realization stage

# The fundamental scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences") (F6)

1. The fundamental scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.11. FRE(F)B[FD(SR)B] "Cognitive modeling in the historical-philological sciences" ("OIFN")

A.11.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the history and historical sciences" ("SI")

A.11.2. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the science of language, (cognitive) linguistic, literature, study of literature and oral national creativity" ("SYL")(\*)

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS") at the realization stage

# The fundamental scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences") (F7)

1. The fundamental scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.12. FRE(F)B[FD(SR)B] "Cognitive modeling in the sports sciences" ("OSN")

Tasks and problems at the micro level

A.12.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the competitions, sport and sports sciences" ("STSSSN")

A.13. FRE(F)B[FD(SR)B] "Cognitive modeling in the military sciences" ("OVN")

Tasks and problems at the micro level

A.13.1. FRE(F)DP[FDDP(FSRS)] "The (development of) theory of the architecture, construction, technics, history, education, politics and economics in the armed forces" ("STASTIOPEVS")

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS") at the realization stage

# The applied scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences"") (A1)

2. The applied scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.1. ARE(F)D – the applied researches exhibitions (financing) direction [see ASR(D)D– the applied scientific researches (developments) direction] "Cognitive modeling in the natural sciences" ("NEN")

B.1.1. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the (cognitive) informatics, cybernetics, automatics, computer engineering, data transmission and connection" ("SIC")(\*)

B.1.2. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the mathematics, math. physics, mechanics, metrology, astronomy, space res., the complex system analysis based on CMT and complex problems of natural sciences" ("SMMF")(\*)

B.1.3. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the geo-chemical ecology and preservation of environment" ("SNOS")

B.1.4. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the models of The Earth and The Solar system planets in the geography, geology, geodesy, cartography, astronomy and other sciences" ("SNZ")(\*)

B.1.5. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the models, methods and technologies of the geology of oil and gas and oil and gas industry" ("SNG")

B.1.6. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the system analysis based on CMT, prediction, standardization, unification and complex problems of exact technical sciences" ("SSAP")(\*)

B.1.7. ARE(F)DP[ASRS(SRL)] "The (research of) applications of theor. and exp. physics, geo-physics, power-engineering, electrical-engineering, electronics and radio-engineering, nuclear physics, technics and instrument-making" ("SF")(\*)

B.1.8. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the (non)organic chemistry, crystallography, mineralogy and chemical industry" ("SH")(\*)

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS"") at the realization stage

## The applied scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchak" ("SIO "Academy of cognitive natural sciences") (A2)

2. The applied scientific researches exhibitions (fin.) divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N.")

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.2. ARE(F)D[ASR(D)D] "Cognitive modeling in the applied technical sciences and technologies" ("NNT")

B.2.1. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the mining and metallurgy" ("SGM")

B.2.2. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the sciences about wood and wood processing" ("SNL")

B.2.3. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the noo-sphere knowledge and technologies: the (heavy) mechanical-engineering, instrument-making, polygraphy, reprography and foto-cinema-technics, easy and food-processing industry, transport, architecture, construction and other branches" ("SNZT")(\*)

B.2.4. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the scientific problems of agro-industrial complex" ("SNPAK")

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS") at the realization stage

# The applied scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences"") (A3)

2. The applied scientific researches exhibitions (fin.) divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.3. ARE(F)D[ASR(D)D] "Cognitive modeling in the geo-political sciences and researches" ("NSGI")

B.3.1. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the geo-politics and safety" ("SGB")

B.3.2. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the classical and military history" ("SVIT")

Tasks and problems at the micro level

B.4. ARE(F)D[ASR(D)D] "Cognitive modeling in the society steady development of postindustrial country" ("NURS")

B.4.1. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the complex problems of country development" ("SPUR")(\*)

Tasks and probl. at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS"") at the realization stage

## The applied scientific researches exhibitions (financing) divisions

of “The Saint-Petersburg exhibition centre named after Brezhnev L.I.”  
at “The exhibition of achievements of science and technology named after A.A. Sobchak”  
 (“SIO “Academy of cognitive natural sciences””) (A4)

2. The applied scientific researches exhibitions (fin.) divisions (see “SIO “ACNS”” and “SRI “SFA CMT” of “RA(N)S” n. a. Veniaminov V.N.”

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.5. ARE(F)D[ASR(D)D] “Cognitive modeling in the social-economic and jurisprudential sciences” (“NSEPP”)

B.5.1. ARE(F)DP[ASRS(SRL)] “The (research of) applications of the inter-branch jurisprudential and economic system researches of society and country” (“SMEESI”)

B.5.2. ARE(F)DP[ASRS(SRL)] “The (research of) applications of the complex problems of micro-(macro-)economics, social sphere and market economy of the country” (“SPMSRH”)

B.5.3. ARE(F)DP[ASRS(SRL)] “The (research of) applications of the economics, management, sociology, statistics and their other branches” (“SES”)

B.5.4. ARE(F)DP[ASRS(SRL)] “The (research of) applications of the financial analysis, accounting and audit of the (credit) organization based on the cognitive modeling technology” (“SFABUA”)(\*)

Tasks and problems at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of “SPbEC n. a. Brezhnev L.I.” at “EAST n. a. Sobchak A.A.” (“SIO “ACNS””) at the realization stage

## The applied scientific researches exhibitions (financing) divisions

of "The Saint-Petersburg exhibition centre named after Brezhnev L.I." at "The exhibition of achievements of science and technology named after A.A. Sobchsk" ("SIO "Academy of cognitive natural sciences") (A5)

2. The applied scientific researches exhibitions (fin.) divisions (see "SIO "ACNS" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.6. ARE(F)D[ASR(D)D] "Cognitive modeling in the biological and medical sciences" ("NBME")

B.6.1. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the biology, ecology and physiology of plants" ("SBE")

B.6.2. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the bio-technology, bio-medicine, ergonomics and labor safety of organic individuals" ("SB")(\*)

Tasks and probl.  
at the micro level

B.7. ARE(F)D[ASR(D)D] "Cognitive modeling in the humanitarian sciences, art and creativity" ("NGNOT")

B.7.1. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the (cognitive) linguistics, (national) creativity, culture, art and religion" ("SGNT")(\*)

B.7.2. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the literature, science-study, philosophy, journalism and mass communication means" ("SLPZ")

B.7.3. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the problems of (cognitive) psychology, education, science and supports of young scientists (the grants programs and others)" ("SPOPMU")(\*)

B.7.4. ARE(F)DP[ASRS(SRL)] "The (research of) applications of the innovations of project "The Russian encyclopedias", philosophy of science, technics and technology on branches of knowledge" ("SRE")

Tasks and problems  
at the micro level

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." ("SIO "ACNS") at the realization stage

## The applied scientific researches exhibitions (financing) divisions

of “The Saint-Petersburg exhibition centre named after Brezhnev L.I.”  
at “The exhibition of achievements of science and technology named after A.A. Sobchak”  
 (“SIO “Academy of cognitive natural sciences””) (A6)

2. The applied scientific researches exhibitions (fin.) divisions (see “SIO “ACNS”” and “SRI “SFA CMT” of “RA(N)S” n. a. Veniaminov V.N.”

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.8. ARE(F)D[ASR(D)D] “Cognitive modeling in the physical training and sport” (“NFS”)

Tasks and problems at the micro level

B.8.1. ARE(F)DP[ASRS(SRL)] “The (research of) applications of the sport, sports sciences and actions” (“SSSNM”)

B.9. ARE(F)D[ASR(D)D] “Cognitive modeling in the military sciences” (“NVN”)

Tasks and problems at the micro level

B.9.1. ARE(F)DP[ASRS(SRL)] “The (research of) applications of the architecture, construction, technics, history, education, politics and economics in the armed forces” (“SASTIOPEVC”)

Note: the scientific researches exhibitions (financing) divisions in the field of the system, financial and complex analysis of “SPbEC n. a. Brezhnev L.I.” at “EAST n. a. Sobchak A.A.” (“SIO “ACNS””) at the realization stage