

The STCU Funding Table
18th Governing Board Meeting, June 17th, 2004

#	Full Title	Leading Institution	Project Manager	Requested Funds	USA (US \$)	Canada (US \$)	European Union (EURO)	Other (US \$)	Total Funding (US \$)	Total Funding (US \$ + EURO)	Comments Conditions
1657	Growing of High-Quality Acousto-Optic Mercurous Chloride Hg ₂ Cl ₂ Single Crystals	"Elent A" , Non-Traditional Technologies Science and Engineering Center	Akimov Sergey Vasiljevich	\$140 250							US:2 Canada:2 EU:7
1686	Creation of radiophysical methods for detection of infrasound pollution of atmosphere	Lviv Center of Institute of Space Research	Soroka Silvestr	\$120 000							US:2 Canada:2 EU:7
1705	Multifunctional associative memory of large volume, response, reliability on the basis of simulated neural networks.	State Scientific and Research Institute of Information Infrastructure	Hrytsyk Volodymyr	\$160 339							US:2 Canada:2 EU:7
1717	Creation of information system and multimedia catalog "Ukrainian icon XIII-XVIII c."	State Scientific and Research Institute of Information Infrastructure	Stekh Stefania	\$69 738							US:2 Canada:2 EU:7
1744	Enlargement of three dimensional holographic memory capacity	Kharkiv Military University	Kupchenko Leonid Fedorovich	\$95 200							US:2 Canada:2 EU:7
1748	Development of the superlight aircraft of new generation	"VOL" Science-Innovative Company	NESHMONIN Peter V.	\$130 315							US:2 Canada:2 EU:7
1767	Development of Radio Devices for Monitoring of Parameters of Physical Environments, Functional Materials and Coatings	Usikovs Institute of Radiophysics and Electronics	Maystrenko Yu.	\$94 380							US:2 Canada:2 EU:7
1789	Diamond-like Carbon Films - New Material for Optics and Electronics	SRC "Institute for Single Crystals"	Semenov A. V.	\$88 051							US:2 Canada:2 EU:7
1835	Technology of self-adjustment chemical-mechanical polishing for surface planarization from refractory materials	Bakul Institute for Superhard Materials	Stashnov Nikolay	\$108 000							US:2 Canada:2 EU:7
1861	The influence of stochastic electromagnetic radiation on substances	"Kharkiv Institute of Physics and Technology" National Scientific Center	Bezyazychny Ivan Artemovych	\$156 960							US:2 Canada:2 EU:7
1888	Investigation of mechanisms for dust production and transposition in radiation fields at Chernobyl	"Kharkiv Institute of Physics and Technology" National Scientific Center	Mel'nik Yuri Petrovich	\$84 810							US:2 Canada:2 EU:7
1901	Study of the Mechanism of Precipitation of Electrons and Protons from the Earth's Inner Radiation Belt	Kharkiv State University	Shmatko Yevgen Stepanovith	\$141 000							US:1 Canada:1 EU:7

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1925	Portable Spectrometer of Electronic - Spin- Resonance for Medical and Biological Investigations.	Usikovs Institute of Radiophysics and Electronics	Yeremka Victor	\$114 345							US:2 Canada:2 EU:7
1926	Small-size ESR-Spectrometer for Medical Investigations and Diagnostics.	Usikovs Institute of Radiophysics and Electronics	Yeremka Victor	\$109 968							US:2 Canada:2 EU:7
1938	Self-organization of coherent structures of anomalous transport in electromagnetic media	"Kharkiv Institute of Physics and Technology" National Scientific Center	Vodyanitskii O. A.	\$98 000							US:2 Canada:2 EU:7
1942	A klystron with secondary-emission metallic cathodes for medical electron accelerators	"Accelerator" R&D Production	Zakutin Valeriy V.	\$187 000							US:2 Canada:2 EU:7
1974	Computer-aided multi-factor analyze of bio-electrical parameters of the brain	National Technical University of Ukraine "Kyiv Polytechnical Institute"	Zhuikov V.	\$161 083							US:2 Canada:2 EU:7
1975	The conditions of tungsten substitution in cast hard alloys by transition metals of IV - VI groups.	Frantsevich Institute for Problems of Materials Science	Velikanova Tamara	\$57 300							US:1 Canada:2 EU:7
2004 (C)	New High-Sensitive Photo-Refractive Semiconductor Materials	Institute of Physics	Gnatenko Yuriy P.	\$79 600							US:2 Canada:2 EU:7
2007	Development of a computerized complex and technology for automated thermal straightening of welded sheet structures	Paton Electric Welding Institute	Lobanov Leonid Mikhailovich	\$180 000							US:2 Canada:2 EU:7
2011	Development of the physicochemical basis of the refining, making and investigations of the properties of the extra pure Nb and V for application in the new industry fields.	"Kharkiv Institute of Physics and Technology" National Scientific Center	Lavrynenko Sergiy Dmytriyovych	\$160 281							US:2 Canada:2 EU:7
2043	The development of the electrorefining of platinum-containing secondary raw materials and plating from molten electrolytes	Institute of General and Inorganic Chemistry	Tumanova Nelly Khachaturovna	\$174 000							US:2 Canada:2 EU:7

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2053	Research and Development Methods for Preventing Ultra-Fine Radioactive Dust Formation in Handling Nuclear Materials	Kharkiv State University	Vasylyev Viktor P.	\$154 363							US:2 Canada:2 EU:7
2063	Investigation and development of the acoustic method for rising the debit of oil, gas condensate and water extracting wells, and production the experimental set of the equipment of acoustic effect	Kharkiv State University	Pelikhaty Nikolay Mikhajlovich	\$152 992							US:2 Canada:2 EU:7
2079	Holographic Materials for Neutron and Optical Spectroscopy	Kyiv Taras Shevchenko University	Obukhovskiy Vyacheslav Volodymyrovich	\$65 200							US:2 Canada:2 EU:7
2083	Mechanisms of the ionization increasing in plasma sources of low pressure	Kharkiv State University	Azarenkov Mikola Oleksievich	\$83 050							US:1 Canada:1 EU:7
2127	New methods of early diagnostics of pathologic damages in biological objects and the state of skin using circularly polarized SHF electromagnetic wave (using the Sadvoski effect)	Kharkiv State University	Azarenkov Nikolay Alexeevich	\$159 599							US:2 Canada:2 EU:7
2142	Research on the possibility of hydrocarbon gas detection in air with the help of a HCN laser	Usikovs Institute of Radiophysics and Electronics	Kuleshov Yeugenii	\$139 000							US:1 Canada:1 EU:7
2157	The development of the experimental equipment for dehydrating of the colloidal mixtures by means of their artificial freezing and subsequent defrosting	"Kharkiv Aviation Institute" State Space University	Petukhov Ilya Ivanovich	\$94 000							US:2 Canada:2 EU:7
2174	Production of castings out of deformable aluminium alloys under electromagnetic pressure with non-solidifying gating system	Physico-Technological Institute of Metals and Alloys	Dubodelov Viktor Ivanovych	\$121 000							US:2 Canada:2 EU:7

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2206	Enhancing Serviceability of Welded Joints of Dissimilar Metals by Optimizing Their Design and Technological Parameters	Institute for Problems of Strength	Lebedev Anatoly A.	\$110 000							US:1 Canada:1 EU:7
2219	System for personal identification by voice of video and sound recording	Kyiv Scientific Research Institute of Forensic Examinations	Novoselsky O. F.	\$99 530							US:2 Canada:2 EU:7
2242	New Methods and Tools of Images Processing for Telemedicine Technologies	"Intermag" Science and Production Firm	Novoselets Mikhaylo Kyrvllovych	\$177 600							US:2 Canada:2 EU:7
2253	Information technology and system for preservation of cultural possessions of Ukraine	State Scientific and Research Institute of Information Infrastructure	Opotiak Yu. V.	\$76 149							US:1 Canada:1 EU:7
2259	Nonlinear generation of second harmonics of laser irradiation using passive resonator	"Lvivska Polytechnica" State University	Bobitski Yaroslav Vasyliovych	\$159 729							US:2 Canada:2 EU:7
2273	Effects of Low Radiation on Alice Cell Properties	"Kharkiv Institute of Physics and Technology" National Scientific Center	Khizhnyak Nikolay Antonovich	\$180 000							US:2 Canada:2 EU:7
2275	Development of methods of optimal filtering the reflected signal when sounding of the underground structure of the soil	Usikovs Institute of Radiophysics and Electronics	Kornienko Yuriy	\$98 445							US:2 Canada:2 EU:7
2280	Epiphyseal-gonadal system reactivity to electromagnetic field effects	Ukrainian Pharmacotherapy of Endocrine Diseases Research Institute	Gladkova Alla	\$168 522							US:2 Canada:2 EU:7
2294	The Method of Analysis in Vitro of Molecular Mechanisms of Action of Drugs for Their Designing, Selection of Dozes and Combinations	Problem Scientific and Research Laboratory of Molecular Mechanisms	Konev Fedir A.	\$154 375							US:2 Canada:2 EU:7
2295	Apparatus and Technique for the Early Diagnostics, Therapy, and Preventive Maintenance of Cardiovascular Diseases	Problem Scientific and Research Laboratory of Molecular Mechanisms	Kovalyova O. N.	\$152 405							US:2 Canada:2 EU:7
2296	Creation of the equipment complex for the analysis of Hydration Parameters of Bioobjects and their Water Component	Usikovs Institute of Radiophysics and Electronics	Shchegoleva T.	\$102 174							US:2 Canada:2 EU:7

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2298	The express testing system of cereal cultures maturity in harvest period for Ukraine farms	Problem Scientific and Research Laboratory of Molecular Mechanisms	Kolesnikov V.	\$135 872							US:2 Canada:2 EU:7
2300	Origin, propagation and diagnostic capacity of natural pulse electromagnetic radiation from the earth interior which is a precursor	Usikovs Institute of Radiophysics and Electronics	Uvarov Vladimir M.	\$142 380							US:2 Canada:2 EU:7
2329	Control over field of tempers in big-volume structures	"Pivdenne" State Design Bureau	Pakhomov Sergiy	\$90 672							US:2 Canada:2 EU:7
2337	A Mobile System of Electromagnetic Phase Location for Oil and Gas Pipelines.	Glushkov Institute of Cybernetics	Bek Alexander	\$109 200							US:2 Canada:2 EU:7
2343	Intratonic Correlations, Electronic Structure and Structural Phase Transformations in Alloys Exposed to Radiation	Kyiv Taras Shevchenko University	Kulich Mykola P.	\$191 750							US:2 Canada:2 EU:7
2352	Working out the Lubrication Material Obtaining Technology of New Generation on the Base of Polytetrafluorethylene	"Southern Machine-Building Plant" Production Association	Ransky Anatoly Petrovich	\$78 459							US:2 Canada:2 EU:7
2358	Special Pliislic Lubricants Production Technology Elaborating	Ukrainian State Chemical and Technological University	Ranskr Anatoliv Petrovich	\$64 101							US:2 Canada:2 EU:7
2373	Development of Production Process of Articulated Square Trusses from a Composite Material	East Ukrainian State University	Rach Valentyn	\$51 645							US:2 Canada:2 EU:7
2375	Development and fabrication of experimental samples of thermovisual devices on the base of pyroelectric matrices	State Special Designer-and-Technological Office of Physical Equipment with Experienced Manufacture	Bundza Bogdan Petrovich	\$196 055							US:2 Canada:2 EU:7
2376	Research of extra-low frequency perturbations of atmospheric pressure for diagnostics and correction of meteorodependency	Kyiv Taras Shevchenko University	Gorgo Yuri	\$138 690							US:2 Canada:2 EU:7
2411	Development of dye-doped polymer systems as the standards for time-resolved spectroscopy	Institute of Physics	Bondar Mikhail V.	\$190 000							US:2 Canada:2 EU:7

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2420	Comprehensive investigations of the processes and consequences of the charged particles beams -	Kyiv Taras Shevchenko University	Dotsenko Ivan Sergiyovych	\$150 000							US:2 Canada:2 EU:7
2424	A study of chemical interaction of helium and an investigation of properties of the compounds derived	Frantsevich Institute for Problems of Materials Science	Morozova Raisa	\$126 954							US:2 Canada:2 EU:7
2454	Development of methods for synthesis and upgrading color stones	State Scientific Center of Environmental Radiochemistry	Igor Komov	\$197 205							US:2 Canada:2 EU:7
2478	Electronic Weight Measuring Equipment.	State Daughterly Enterprise "Orizon-Universal" of State Plan "Orizon-Prilad"	Sydorenko Yuri	\$221 475							US:2 Canada:2 EU:7
2479	Power supply system having long life for space applications	HARTRON Corp., JSC	Bobkov Valentin	\$145 000							US:2 Canada:2 EU:7
2484	Study of regularities and development of technologies of gold and silver re-recovery from gold-containing ores	"Pridneprovsky Hydrometallurgical Plant" State Enterprise	Korovin Yuriy	\$153 445							US:2 Canada:2 EU:7
2489	The two-nozzle injector for water cooling towers of splashing type	"Dnepropetrovsk plant Temp" Join Stock Company	Gavrish Felix	\$148 600							US:1 Canada:1 EU:7
2517	Development of Voice-control Plasma Surgical Apparatus	"Pivdenne" State Design Bureau	Dranovskiy Volodymyr I.	\$124 344							US:2 Canada:2 EU:7
2547	Instrument for controlling the quality of non-ferrous metals and separation of their alloys	State Scientific Research and Development Institute of Titanium	Brynza Alexander	\$57 400							US:2 Canada:2 EU:7
2557	Elaboration and device complex trial for pipe production of raised quality	Novomoskovsk Pipes Plant	Vdovin Valentin Dmitrievich	\$119 200							US:2 Canada:2 EU:7
2582	Pulsed electromagnetic field - a method of controlling material structure and properties	Galkin Donetsk Institute for Physics and Technology	Datsko Oleg Ivanovich	\$71 729							US:2 Canada:2 EU:7
2594	A remote control system for checking the state of exhausted heat releasing rods (HRRs) before their burial	Special Design Bureau of Television Systems	Basyuk Mykola	\$92 455							US:1 Canada:1 EU:7

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2597	Reduction of Military Engineering: Use for Civilian Purposes of Heavy Mechanized Bridges	"UkrNDIproektstalkonstruksiya", Ukrainian Research and Design Institute of the steel constructions, Joint Stock Company	Gordeev Vadym Mykolaiovych	\$91 620							US:2 Canada:2 EU:7
2610	Analysis of Factors Causing Orbital Debris and Development of Proposals on Its Minimization or Formation Prevention	"Pivdenne" State Design Bureau	Kompaniets Eduard Petrovich	\$80 017							US:2 Canada:2 EU:7
2624	Investigations of basic compressibility effects in sub-, trans-, supersonic flows in water free surfaces	Institute of Hydromechanics	Selezov Igor T.	\$34 000							US:2 Canada:2 EU:7
2625	Development of metallic fuel electric power plant	"Perspektiva" technoparc of NTUU "KPI"	Mourashov Olexandr Heoroiyovych	\$99 600							US:2 Canada:2 EU:7
2626	Diffractiontopography	Kurdyumov Institute for Metal Physics	Molodkin Vadim B.	\$178 620							US:2 Canada:2 EU:7
2627	Writing and publishing in English the monograph 'Statistical Theory of Radiations' Scattering by	Kurdyumov Institute for Metal Physics	Molodkin Vadim B.	\$49 500							US:2 Canada:2 EU:7
2630	Ecological and Chemical Studies of Monitoring Military Installations for Dismantlement	Center of Ecological Research, National University of "Kyiv-Mohyla Academy"	Bryk Mykhaylo T.	\$167 275							US:2 Canada:2 EU:7
2639	Development of new compositions of shape-memory alloys for medical applications	Paton Electric Welding Institute	Kaleko David	\$193 526							US:2 Canada:2 EU:7
2656	Energy - conservation technology for underwater preservation of Stores	Sevastopol naval institute	Baranov Oleksandr Nikolaevich	\$82 620							US:1 Canada:1 EU:7
2658	The Magnet-Optical Transformers	Simferopol State University	Dubinko Sergey Vladimirovich	\$120 000							US:2 Canada:2 EU:7
2671	Space radar system for continuous surveillance of the Earth's surface	Kalmykov Center for Radiophysical Sensing of Earth	Kurekin Alexander S.	\$112 700							US:2 Canada:2 EU:7
2682	Ukrainian ozone monitoring network	Institute of Physics	Baschenko Sergiy M.	\$70 070							US:2 Canada:2 EU:7

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2685	Creation of a new orientation technology of details in flat section and the examples of the devices that realize it on the specific parts	"Relaks" Scientific and Technical Venture	Yury Sidorov	\$80 800							US:2 Canada:2 EU:7
3001	Combined methods of filtered plasma stream formation for cathodic-arc coating deposition processes	"Kharkiv Institute of Physics and Technology" National Scientific Center	Khoroshykh Volodymyr Maksymovytch	\$67 897							US:2 Canada:2 EU:7
3004	Novel express methods for outdoor rapid detection of toxic impurities in environment and socially insecure pharmacological substances	SRC "Institute for Single Crystals"	Blank Avram Borisovich	\$198 200	\$198 200				\$198 200	\$ 198200	US:5 Canada:2 EU:7
3005	Crystallization concentration of poisonous and bioactive substances from aqueous solutions	SRC "Institute for Single Crystals"	Eksperiandova Petrivna Ludmyla	\$134 555							US:2 Canada:2 EU:7
3010	Development of Algorithms for Crisis Situations Management	"Pivdenne" State Design Bureau	Kotyegov Volodymyr Yurivovich	\$221 857							US:2 Canada:2 EU:7
3012	Physical processes in low-dimensional crystalline layered chalcogenides and their applications	Frantsevich Institute for Problems of Materials Science	Kovalyuk Zakhar	\$148 500							US:2 Canada:2 EU:7
3013	New energy-saving methods, devices based on over-voltage pulse corona discharge for water, food treatment, gas cleaning	"Molniya" Research and Design Institute of Kharkiv State Polytechnical University	Boyko Mykola Ivanovitch	\$145 580							US:1 Canada:1 EU:7
3014	Novel oxygen-, nitrogen, chalcogen-containing platinum metal complexes for the correction of cardiovascular disturbance under extreme conditions	Vernadskii Institute of General and Inorganic Chemistry	Volkov S. V.	\$199 265							US:2 Canada:2 EU:7
3017	The development of synthetic approaches to new types of azoles and azines, potential bioregulators.	Institute for Bioorganic Chemistry and Petrochemistry	Drach Boris	\$147 000							US:4 Canada:2 EU:7

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3018	Development of technology for energy production from radioactive contaminated wood and other combustible materials	Research Institute of Mechanics of Quick-Proceeding Processes	Veryuzsky Yury Vasilievich	\$176 469							US:2 Canada:2 EU:7
3019	Real-time agrotechnological monitoring and control system for managing plant pests, providing nutrients, and protecting crops	"Hartron" Research and Production Association, Joint Stock Company, Kharkiv State Technical University of Radio Electronics	Markov Volodymyr Leonidovych	\$187 662							US:2 Canada:2 EU:7
3020	Reagent-free technology for disinfecting various liquids on the basis of combination of high-voltage pulsed effects.	National Technical University of Ukraine "Kyiv Polytechnical Institute"	Boyko Mykola Ivanovitch	\$146 124							US:2 Canada:2 EU:7
3021	Nontraditional electrochemical systems for converting energy	National Technical University of Ukraine "Kyiv Polytechnical Institute"	Kuzminskii Vasilievich Yevgenii	\$115 500							US:2 Canada:2 EU:7
3022	Development of Microwave Devices for Mobile Communications Using New Superconducting Materials	Kurdymov Institute for Metal Physics	Prokhorov Valeriy Georgiyovych	\$141 900	\$141 900				\$141 900	\$ 141900	US:5 Canada:2 EU:7
3023	Composites in-situ on the basis of ternary carbides - nanolaminates - fabrication, properties, usage	Frantsevich Institute for Problems of Materials Science	Pechkovsky Engels P	\$66 088							US:2 Canada:2 EU:7
3025	Scientific base for testing, modeling and use of composite materials with increased resistance to impact	Institute for Problems of Strength	Stepanov Gennadiy	\$121 111							US:2 Canada:2 EU:7
3027	Scientific Base of Designing and Manufacturing New Advanced Materials by Evaporation and Condensation Technology	Institute for Problems of Strength	Stepanov Gennadiy	\$125 008							US:2 Canada:2 EU:7
3028	Development of natural polyfunctional plant growth biostimulators with bioprotective effects for the ecological agriculture	"Agrobiotech" Interbranch Scientific Technological Center	Ponomarenko Sergiy	\$180 000	\$30 000				\$30 000	\$ 30000	US:4, 6 Canada:2 EU:7

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3029	Development of thermochemical gasification technology for utilization of combustible radioactive waste with separation between short half-value period and long half-value period radionuclides	Research Institute of Mechanics of Quick-Proceeding Processes	Veryuzsky Yury Vasilievich	\$159 036							US:4 Canada:2 EU:7
3034	Development of wood fired under screw boiler of 100 kW for wood waste combustion	Institute of Engineering Thermophysics	Geletukha Georgiy	\$100 928							US:2 Canada:2 EU:7
3035	Development of Fisher-Tropsch Synthesis Technology for Liquid Fuel Production from Biomass	Institute of Engineering Thermophysics	Zhelyezna Tetyana	\$150 417							US:2 Canada:2 EU:7
3037	Development of lithium-ion rechargeable battery, supercapacitor and hybrid unit on their basis using the fluorosulphonate electrolytes	"Pivdenne" State Design Bureau	Frolov Victor	\$192 000	\$96 000		€80 000		\$96 000	\$ 96000 €80000	US:5 Canada:2 EU:5
3039	Elaboration of the novel method of early cancer detection and development of the commercially available immunoassay	Institute of Epidemiology and Infectious Disease	Parkhomenko Larysa Vasilivna	\$120 868							US:1 Canada:1 EU:7
3040	Development of technological basis for gasification and compacting of radioactive graphite with radionuclides extraction	Research Institute of Mechanics of Quick-Proceeding Processes	Veryuzsky Yury Vasilievich	\$159 036							US:2 Canada:2 EU:7
3041	Development of Fast Pyrolysis Technology for Liquid Fuel Production from Biomass Wastes	Institute of Engineering Thermophysics	Zhelyezna Tetyana	\$131 307							US:2 Canada:2 EU:7
3044	Development of technology for destruction of highly active and toxic substances in non-equilibrium plasma of electric discharges	Kyiv Taras Shevchenko University	Chernyak Valeriy	\$175 000							US:2 Canada:2 EU:7
3047	The filmforming materials for interference optics of the excimer and technological IR lasers	Bogatskij Physico-Chemical Institute	Efryushina Ninel' Efryushina Ninel'	\$200 000							US:2 Canada:2 EU:7

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3049	Mechanisms of critical currents limitation in hts films and novel technology for their enhancement	Kurdyumov Institute for Metal Physics	Pan Volodymyr	\$136 400							US:2 Canada:2 EU:7
3050	Development of technology for anaerobic digestion of manure with biogas production on cattle and pig farms	Scientific Engineering Centre "Biomass"	Matveev Yuri	\$179 118							US:2 Canada:2 EU:7
3051	Metrological digital manometers with especially high accuracy class 0,001	Lviv Center of Institute of Space Research	Mytsyk Bohdan	\$96 000							US:2 Canada:2 EU:7
3052	Development of batch straw fired boiler of 100 kW for small bales combustion	Institute of Engineering Thermophysics	Geletukha Georgiy	\$99 878							US:2 Canada:2 EU:7
3053	Investigation of explosive straightening processes of high-accuracy complex shells and scientific base technology development	Zhukovskiy National Airoospace University	Borisevich Volodimir Karpovich	\$160 000							US:2 Canada:2 EU:7
3056	Development of technology for landfill gas extraction and utilization	Scientific Engineering Centre "Biomass"	Matveev Yuri	\$99 960							US:2 Canada:2 EU:7
3057	Development of high stability cermet springs and devices for examination of their parameters	Frantsevich Institute for Problems of Materials Science	Silenko Petro	\$146 955							US:1 Canada:1 EU:7
3058	Development of Risk Based Maintenance program for equipment of systems, which are important for the safety	National Technical University of Ukraine "Kyiv Polytechnical Institute"	Petrenko Serhiy	\$185 000							US:2 Canada:2 EU:7
3059	Method and apparatus for diagnosing a living tissue state	Institute for Applied Problems of Mechanics and Mathematics	Gafiychuk Vasyi'	\$98 725							US:2 Canada:2 EU:7
3063	Technique for Remote Detection of Nuclear Explosives	Kharkov National University By V.N.Karazin	Cherny Valentin Vasilevich	\$260 000							US:2 Canada:2 EU:7

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3064	X-ray diffuse scattering effects in epitaxial and ion-implanted crystal structures	Kurdyumov Institute for Metal Physics	Kislovskii Yevgen Mykolayovych	\$199 999							US:2 Canada:2 EU:7
3065	Aerospace-borne soil and vegetation remote-sensing data usage planning	Usikovs Institute of Radiophysics and Electronics	Yatsevich Sergiy	\$185 000							US:1 Canada:1 EU:7
3066	Nonlinear Microwave Signal Processor Based on Yttrium-Iron Garnet (YIG) Samples	Kyiv Taras Shevchenko University	Melkov Gennadiy	\$183 456	\$183 456				\$183 456	\$ 183456	US:5 Canada:2 EU:7
3068	Compact Helicon Dense-Plasma Source	"Institute for Nuclear Research" Scientific Center	Shamrai Konstantin	\$54 954	\$27 477		€22 898		\$27 477	\$ 27477 €22898	US:5 Canada:2 EU:5
3070	Development of energy efficient technology for charcoal production	Institute of Engineering Thermophysics	Geletukha Georgiy	\$99 000							US:2 Canada:2 EU:7
3071	Spectral Lamps of New Generation for Medicine and Photobiology	Institute of Physics	Zubrilin M. G.	\$198 000							US:1 Canada:1 EU:7
3072	Cast high-strength austenitic with complex special property alloys for machine-building, gas- and oil- extraction systems	Physico-Technological Institute of Metals and Alloys	Bondarevskyy Valeriy	\$139 829							US:2 Canada:2 EU:7
3073	Project of Autonomous Powerplant of Combined Cycle for Obtaining Synthesis-Gas from Agricultural Wastes and Its Usage	"Pivdenne" State Design Bureau	Borisenko Stanislav Vasilyevich	\$344 842							US:2 Canada:2 EU:7
3074	SQUID-magnetometry system to control magnetic contrast agents and targeted transport of medications with magnetic carriers	Glushkov Institute of Cybernetics	Voitovych Igor	\$219 974							US:1 Canada:1 EU:7
3076	Development of new high effective hybrid battery for accumulation and conservation of the solar energy	Frantsevich Institute for Problems of Materials Science	Tovstyuk Denysovych Korniy	\$85 000							US:2 Canada:2 EU:7
3077	Development of pure plant oil utilization technology for agricultural machinery	Institute of Engineering Thermophysics	Zhelyezna Tetyana	\$102 315							US:2 Canada:2 EU:7

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3079	Scientific Base of Impulse Electric Current Treatment for Increasing Strength and Lifetime of Thin Wall Structural Members	Institute for Problems of Strength	Stepanov Gennadiy	\$98 102							US:1 Canada:1 EU:7
3082	Effect of iron containing industrial dusts on the occupational and environmental health in the Ukraine	Institute for Applied Problems in Physics and Biophysics	Mykhaylyk Olga	\$222 952							US:2 Canada:2 EU:7
3083	Nanocrystalline components of high performance solid oxide fuel cells	Frantsevich Institute for Problems of Materials Science	Glintchuk Davydivna Maya	\$196 000							US:2 Canada:2 EU:7
3085	New Possibilities of Dynamical Diffraction Methods in Investigations of Nucleation and Evolution of Microdefects in Monocrystals	Kurdyumov Institute for Metal Physics	Molodkin Vadim B.	\$194 950	\$92 475	\$10 000	€77 063		\$102 475	\$ 102475 €77063	US:5 Canada:5 EU:5
3087	A new magneto-optical medium for detection of the slight magnetic fields	The Institute of Physics of the Mountain Processes	Tsymbal T. Ludmila	\$128 800							US:2 Canada:2 EU:7
3088	Development of land and space application energy modules based on advanced solar converters and lithium accumulators	Chemical Technology University	Shembel Olena Moiseevna	\$190 000							US:1 Canada:1 EU:7
3089	Ultrafine and nanosized materials for corrosion, abrasion and wear resistant coatings	Frantsevich Institute for Problems of Materials Science	Uvarova Irina	\$136 000							US:2 Canada:2 EU:7
3090	Development of diagnostics system for critical and important for safety machinery	National Technical University of Ukraine "Kyiv Polytechnical Institute"	Petrenko Evgenovich Viktor	\$68 000							US:2 Canada:2 EU:7
3093	The Developing a Method of Determining the Durability Characteristics of Materials after Energy Consumption	"YuzhVEC" Firm	Paschenko Anatoliy Vasilyovych	\$115 000							US:2 Canada:2 EU:7
3094	Improvement of Thermal and Corrosion Resistance of Titanium and Zirconium Nitrides under the Action of Hydrogen	Frantsevich Institute for Problems of Materials Science	Dubovik Vasylyvna Tetyana	\$131 932							US:2 Canada:2 EU:7

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3095	Equipment and electric drive systems contractor design for the new generation mandrel tube rolling mill	State Tube Institute	Loskutov Petro	\$149 257							US:1 Canada:1 EU:7
3096	Anisotropy Effects in the Dynamic Properties of Low-Dimensional Spin Systems	Institute for Condensed Matter Physics	Derzhko Oleg	\$27 000							US:2 Canada:2 EU:7
3097	Insulation continuous monitoring and protection system for distribution networks of 6-35 kV.	"YuzhVEC" Firm	Shcrabets Pavlovyeh Fedi	\$170 000							US:2 Canada:2 EU:7
3098	Advanced semiconductor spintronics: technology, theory and devices	National Agrarian University	Gorley Petro	\$83 550							US:2 Canada:2 EU:7
3099	Advanced electrostatic plasma lens for accelerator applications	Institute of Physics	Goncharov Olexiy	\$78 650							US:2 Canada:2 EU:7
3101	The ultrasoft X-Ray spectroscopy of nanodispersed powders and nanostructured materials.	Frantsevich Institute for Problems of Materials Science	Zaulichny V Ya.	\$60 000		\$10 000	€41 677		\$10 000	\$ 10000 €41677	US:1 Canada:5 EU:5
3102	Elaboration of preparation for medical treatment of acute intestinal infection and food toxycoinfection	"Sorption" Scientific and Industrial Center	Dedenko Ivan	\$183 398							US:2 Canada:2 EU:7
3104	Development of photochemically safe two-photon excited fluorescent probes for biological objects detection and imaging	Kyiv Taras Shevchenko University	Yashchuk Valeriy	\$250 000	\$250 000				\$250 000	\$ 250000	US:5 Canada:2 EU:7
3105	Fiber-optics minifabricated system for identification biological microobjects on the basis of complex analysis of electrophoresis processes	Institute for Applied Problems of Mechanics and Mathematics	Ivanovych Demchuk Vasyli'	\$97 500							US:1 Canada:1 EU:7
3106	Extremely disordered materials for fuel cell and nickel-metal hydride battery applications	Frantsevich Institute for Problems of Materials Science	Solonin Yuriy	\$180 000							US:2 Canada:2 EU:7
3107	Production scheme developing and operation characteristics investigation of scintillation strips for OPERA detector	Institute for Scintillation Materials	Senchyshyn Vitalii	\$150 000							US:2 Canada:2 EU:7

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3110	Development of Lithium Tetraborate-Based Tissue-Equivalent Dosimeters for Wide Application	"Technocrystal" LTD	Puga Pavlo	\$186 000							US:2 Canada:2 EU:7
3111	Spherical granulated mesoporous superacidic catalysts based on titanium and zirconium	Institute for Sorption and Endoecology Problems	Strelko Volodymyr	\$180 000							US:2 Canada:2 EU:7
3113	Environmental Management Strategy For Radioactively Contaminated Soils and Dumps in the Near-Zone of Chernobyl Nuclear Power Plant	Institute of Geological Science	Bugay Dmytro Oleksandrovitch	\$179 972							US:2 Canada:2 EU:7
3115	Technology development for production wear-resistant powder tool steels using specific treatment metal melt.	Frantsevich Institute for Problems of Materials Science	Itsenko Anatoly	\$124 970							US:2 Canada:2 EU:7
3116	Action of ultra low-frequency electromagnetic fields on intracellular calcium homeostasis in central nervous system and effector organs	Institute of Physiology	Voitenko Nana	\$80 000							US:2 Canada:2 EU:7
3120	Nonlinear waves as a technical tool for studying and rearranging the structured medium	Subbotin Institute of Geophysics	Vakhnenko Vyacheslav	\$193 762							US:2 Canada:2 EU:7
3124	Development of Processing Technology and Pilot Installation for Solid Alloys Obtained During Utilization of Ammunition	"Pridneprovsky Hydrometallurgical Plant" State Enterprise	Korovin Vadim	\$166 948							US:2 Canada:2 EU:7
3125	Development of the Methods and Creation of the Apparatus for Ecologically Threatening Phenomena	Carpathian Branch of the Institute of Geophysics of S.I.Subbotin" (No "Institute of Geophysics of	Deshchytsya Stepan Andriyovych	\$110 000							US:2 Canada:2 EU:7
3129	High-performance spectrometric γ -radiation detection blocks for unauthorized radioactive substances radiation monitoring systems	SRC "Institute for Single Crystals"	Nekrasov Vasyly	\$170 000							US:2 Canada:2 EU:7

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3130	Increase in fatigue strength of thin-walled aluminium structure joints using high-efficient consumable electrode welding and strengthening	Paton Electric Welding Institute	Kirjan Valery	\$258 000							US:1 Canada:1 EU:7
3131	Nonmetallic composite coatings on lightweight metals resistant to man-made and natural environment influences	Ukrainian State Chemical and Technological University	Snizhko Lyubov	\$165 655							US:1 Canada:1 EU:7
3132	The Diagnosis and Forecast of the Centimeter Radiowave Propagation in Various Regions of the World Ocean	Usikovs Institute of Radiophysics and Electronics	Mutsenko Igor	\$90 000							US:1 Canada:1 EU:7
3134	Vacuum-Plasma Properties of Two-Layer Diffusion Systems on the Base of Tungsten and Palladium	"Kharkiv Institute of Physics and Technology" National Scientific Center	Glazunov Gennadiy	\$98 366	\$98 366				\$98 366	\$ 98366	US:5 Canada:2 EU:7
3135	Etiology of Schizophrenia & Alcoholism and Development of Optical Spectral Diagnostics Methods of the listed Diseases	Institute of Physical Optics	Vlokh Rostyslav Orestovich	\$150 718							US:2 Canada:2 EU:7
3136	Development of a passive millimeter waves imaging system for detection of the weapon concealed under clothing	"Iceberg" State Research Center	Denisov Alexander	\$186 000							US:2 Canada:2 EU:7
3139	Modified flavonoids - the way to the creation of hypoglycemic drugs of a new generation	Kyiv Taras Shevchenko University	Khilya Volodymyr	\$190 000							US:2 Canada:2 EU:7
3140	Development and Implementation of Regional Monitoring System for Demand and Supply of High-Tech Production	Zakarpattia Center of Science-technology and Economy Information	Popadinets I. V.	\$223 504							US:2 Canada:2 EU:7
3141	Creation of a microwave substrate preparation technology and equipment for cultivation and storage of mushrooms	Odessa State Academy of Refrigeration	Boshkova Irina	\$197 992			€165 000			€165000	US:2 Canada:2 EU:5

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3144	The development of magnetoelastic shape memory material for a new class of acoustic transformers	Institute of Magnetism	Pogorily Anatoliiy N.	\$117 750	\$58 875		€49 063		\$58 875	\$ 58875 €49063	US:5 Canada:2 EU:5
3146	Elaborating and Optimizing a Non-Invasive Method for Detecting and Imaging Carbon, Nitrogen, and Oxygen Concentrations	"Kharkiv Institute of Physics and Technology" National Scientific Center	Zajtsev Borys Vasyliovych	\$234 000							US:2 Canada:2 EU:7
3147	Elaboration of a System for Drug-Design and Selection of Effective Anti-Herpetic Preparations Using Modern Computer Technologies	Ukrainian I. I. Mechnikov Anti-Plague Research Institute	Boschenko Yuriy Anatolievich	\$183 320	\$183 320				\$183 320	\$ 183320	US:5 Canada:2 EU:7
3148	Experimental investigation the heat transfer in vertical and horizontal channels cooling by Freon at near-critical and supercritical pressures	National Technical University of Ukraine "Kyiv Polytechnical Institute"	Bezrodnyy Mykhaylo	\$62 500							US:2 Canada:2 EU:7
3150	Monitoring the geodynamical phenomena in the Crimea region by VLBI, GPS, and SLR techniques	Main Astronomical Observatory	Suberlyak Vasyi Romanovych	\$199 993							US:2 Canada:2 EU:7
3151	Technological Fundamentals Of W-181, Pd-103 And Re-186 Isotopes Production For Nuclear Medicine Using The Electron Accelerator	"Kharkiv Institute of Physics and Technology" National Scientific Center	Uvarov V. L.	\$172 000	\$172 000				\$172 000	\$ 172000	US:5 Canada:2 EU:7
3152	Broadband small-size microwave and millimeter wave antennas	Usikovs Institute of Radiophysics and Electronics	Ivanchenko Igor	\$90 000							US:2 Canada:2 EU:7
3153	High strength and wear resistant ceramic and ceramic-metal composite materials with low specific weight (up to 3 g/cm ³)	Frantsevich Institute for Problems of Materials Science	Tkachenko Grigorievich Yuriy	\$187 922							US:1 Canada:1 EU:7
3156	Method and apparatus to study of materials at high pressures and temperatures in a SDAC in situ by using acoustic emission phenomena	Bakul Institute for Superhard Materials	Shvedov Leonid Konstantinovich	\$98 980							US:2 Canada:2 EU:7

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3157	Creation and Testing the Series of Magnetotherapeutic Devices for Treatment of Gastroenterologic Diseases	Expromag Ltd	Putilov Yuriy	\$133 046							US:1 Canada:1 EU:7
3158	Development of the physical concept of intense compact quasi-monochromatic X-ray source based on Compton scattering	"Kharkiv Institute of Physics and Technology" National Scientific Center	Karnaukhov Ivan Mikhaylovich	\$144 968							US:2 Canada:2 EU:7
3159	Investigation of effects of bombardment by hydrogen ions on optical properties of beryllium mirrors	"Kharkiv Institute of Physics and Technology" National Scientific Center	Voitsenya Volodymyr	\$80 000							US:2 Canada:2 EU:7
3160	Design of plane scanning centimeter and millimeter-wave antennas for mobile telecommunication	Usikovs Institute of Radiophysics and Electronics	SIRENKO Yuriy K.	\$185 521							US:1 Canada:1 EU:7
3161	Innovative water purification method and devices	Ukrainian State Chemical and Technological University	Gevod Viktor Sergeevich	\$105 624							US:2 Canada:2 EU:7
3165	Development Of Methodology And Instrumentation For Multi-Parametric Tomography Of Earthquake Hazardous Zones	Lviv Center of Institute of Space Research	Korepanov Valery	\$195 095							US:2 Canada:2 EU:7
3166	Development of the New Hemoadsorption System for Removal of Protein-Bound Toxins and Inflammatory Cytokines	Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology	Nikolaev Volodymyr	\$123 420							US:1 Canada:1 EU:7
3167	The estimation of ecological harm from impact of dangerous objects to environment for Sebastopol region	Kyiv Taras Shevchenko University	Kutalakhmedov Alexeevich Yuriy	\$254 400							US:2 Canada:2 EU:7
3169	Creation of the automatic 80-cm telescope for astrophysical research	Astronomical Observatory of Kyiv Taras Shevchenko University	Novosyadlyj Bohdan	\$173 367							US:1 Canada:1 EU:7
3171	Adaptive Associative Memory "AMNAM"	Institute of Machines and Systems	Riznyk Olexander M.	\$125 835							US:2 Canada:2 EU:7

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3172	Potential anticancer agents based on porphyrins interaction with G-quadruplexes of telomeric DNA	Verkin Institute for Low Temperature Physics and Engineering	Zozulya Victor	\$89 000							US:1 Canada:1 EU:7
3174	Development of new types of intraosseous fixative devices with a removable and biodegradable coating	Sytenko Institute of Spine and Joints Pathology	Radchenko Vladimir	\$153 000			€127 500			€127500	US:1 Canada:1 EU:5
3175	Global electromagnetic resonators as space weather indicators	Institute of Radio Astronomy	Sinitin Victor	\$180 000							US:2 Canada:2 EU:7
3176	Investigation of physical background to design a micro-sensor for detection and categorization of specific objects	"UkrNDIproektstalkonstruksiya", Ukrainian Research and Design Institute of the steel constructions, Joint Stock Company	Khvastukhin Mykhaylo Yuriyovych	\$92 320							US:2 Canada:2 EU:7
3177	Development of Methods and Systems for Wireless Data Readout Using Passive Surface Acoustic Wave Sensors	Research Industrial State Enterprise "Symvol"	Shostak Olexandr	\$125 203							US:2 Canada:2 EU:7
3180	Development of perturbation theory for pseudo-inverse operators and its application in creation of new information technologies	Kyiv Taras Shevchenko University	Garashchenko Fedir Georgiyovych	\$209 999							US:2 Canada:2 EU:7
3181	Cellular And Molecular Mechanisms Of Interaction Of Potato Plant With Phytophthora Infestans Pathogenic Fungi In Microgravity	Institute of Botany	Nedukha Olena M.	\$90 000							US:2 Canada:2 EU:7
3183	Nature environmental monitoring after the completion of uranium mining by the in situ leaching method	Institute of Fundamental Studies	Shumlyanskyy Vladyslav	\$95 405			€79 504			€79504	US:2 Canada:2 EU:5
3184	Supersensitive magneto-electro-cardiographic system for diagnostic examinations based on physical problems in clinical medicine	Glushkov Institute of Cybernetics	Voytovych Igor Danylovych	\$279 779							US:2 Canada:2 EU:7

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3187	Grounds for Radioactive Wastes Disposal within Eastern Part of Korostensky Crystalline Massif (Field and Model Studies)	Radioecological Center, NAS of Ukraine	Rudenko Yuri	\$252 746			€210 622			€210622	US:2 Canada:2 EU:5
3188	Modern methods of evaluation of the load-carrying capacity of refrigerator ship structures under complicated service conditions	Timoshenko Institute of Mechanics	Grigorenko Yaroslav Michaylovich	\$104 542							US:1 Canada:1 EU:7
3189	Technology for thermal hardening of steel tools with the goal of increasing their operational stability	State Metallurgical Academy of Ukraine	Deyneko Leonid	\$180 000							US:2 Canada:2 EU:7
3190	Development and testing of impact-resistant radiation-absorbing composite ceramics for space and ground application	Frantsevich Institute for Problems of Materials Science	Grigoriev O. N.	\$176 763							US:2 Canada:2 EU:7
3191	Development of cooling systems with liquefied gases for medical and computer devices application	Frantsevich Institute for Problems of Materials Science	Gogaev Kazbek	\$186 480							US:1 Canada:1 EU:7
3192	Adaptation of a serial Windturbine USW56-100 to extreme climatic conditions	"Southern Machine-Building Plant" Production Association	Kukushkin Volodymyr Ivanovych	\$121 045	\$121 045				\$121 045	\$ 121045	US:5 Canada:2 EU:7
3193	Composite coatings based on nanocrystalline-amorphous heterostructures	Frantsevich Institute for Problems of Materials Science	Ivashchenko Volodymyr	\$68 766							US:2 Canada:2 EU:7
3195	Development of two-contour heliosystem for hot water delivery based on highly effective solar collectors and photo-battery	Frantsevich Institute for Problems of Materials Science	Frolov Gennady	\$185 000							US:1 Canada:1 EU:7
3196	Study and Development of Process Principles of LRW purification with application of sorbents.	"Sorption" Scientific and Industrial Center	Dedenko Ivan	\$174 590							US:2 Canada:2 EU:7
3197	Real-time investigation of high-pressure jet flows in an ejector system	Institute of Hydromechanics	Voropayev Gennadiy	\$49 690		\$5 000	€37 242		\$5 000	\$ 5000 €37242	US:2 Canada:5 EU:5

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3198	Dynamic multi-criterion optimization of a vehicle control system in real and accelerated time	Ukrainian Center of Environmental and Water Projects - UCEWP	Baranov Vladimir V.	\$66 706							US:2 Canada:2 EU:7
3199	Development of technologies for robust adaptive road departure warning systems in passenger vehicles	National Technical University of Ukraine "Kyiv Polytechnical Institute"	Leonets Olexander	\$89 875							US:2 Canada:2 EU:7
3200	Development of new surface-active polyfunctional regulators for agriculture and environmental technologies.	Lviv's Department of physical chemistry and thechnology of combustive materials of Institute of physical chemistry	Turovsky Anatoliy Antonovich	\$125 000			€104 167			€104167	US:1 Canada:1 EU:5
3201	Dynamic endoprosthesis of the cervical intervertebral disk with total contact and monocystal pair of friction	Sitenko Institute of Spine and Joint Pathology Ukrainian Academy of Medical Sciences	Radchenko Volodymyr	\$80 000							US:1 Canada:1 EU:7
3205	Environment appropriate technology of electricity production using farm and woodworking waste fuels	Dnipropetrovsk State University	Sicheviy Oleksiy Volodimirovich	\$180 000							US:2 Canada:2 EU:7
3206	Research and Development of Scientific Principles for Creating Molecular and Molecular-Based Magnetic Materials	Donetsk Physical-Technical Institute	Levchenko Georgy Timofejovich	\$114 848							US:1 Canada:1 EU:7
3207	Ceramic Coatings on Titanium Alloys Synthesis using Micro Arc Oxidation	Kremenchuk State Polytechnical Institute	Belozarov Valerij	\$117 218							US:1 Canada:1 EU:7
3210	Multidetector technique for investigation of silicon microstrip detectors long-term stability	"Kharkiv Institute of Physics and Technology" National Scientific Center	Maslov Nikolai Ivanovich	\$94 780							US:2 Canada:2 EU:7
3213	Development of Semiconducting Ceramic Composites based on Ternary Nickel, Cobalt, Manganese and Copper Spinel	Vernadskii Institute of General and Inorganic Chemistry	Pekhnyo V. I.	\$94 236							US:1 Canada:1 EU:7
3215	Electro-Vacuum in Ladle Steel Treatment to the Energy Savings, Ecological Improvement and Development of Properties	"Southern Machine-Building Plant" Production Association	Nikitchenko Viktor	\$198 384							US:1 Canada:1 EU:7
3216	Regional Model of the Ionosphere	National Technical University "Kharkiv Polytechnic Institute"	Taran, V. I	\$198 000							US:2 Canada:2 EU:7

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3217	Cast High-Strength Magnetically Soft Alloys for Magneto-Conductive Power Equipment Parts	Physico-Technological Institute of Metals and Alloys	Zeleny Boris	\$139 995							US:2 Canada:2 EU:7
3218	Alpha- particle Confinement and Fusion Helical Reactor Physics Study (Analytical Treatment and Numerical Modeling)	Kharkiv State University	Shyshkin Oleksandr Oleksandrovich	\$200 000							US:1 Canada:1 EU:7
3219	High sensitivity magnetometer for acoustomagnetic detection of ferromagnetic microparticles in biological tissues	Verkin Institute for Low Temperature Physics and Engineering	Bondarenko Stanislav Ivanovich	\$96 000							US:1 Canada:1 EU:7
3221	Development of principles for alloying cold resistant ferritic corrosion- resistant steels	Zaporizhzhе National Technical University	Koval Anatoliy Danilovich	\$109 990							US:1 Canada:1 EU:7
3222	Spatial anisotropy complete 3D-analysis in geometry optimizations of electro-, piezo- and acoustooptical interactions (new computer aided design of highly efficient optical modulators and deflectors)	"Lvivska Polytechnica" State University	Andrushchak Anatoliy	\$99 801			€83 168			€83168	US:1 Canada:1 EU:5
3223	Facility for Probing the Mesosphere/Lower Thermosphere and the Bottomside Ionosphere	Kharkiv State University	Tyrnov Oleg	\$180 000							US:2 Canada:2 EU:7
3225	Synaptic transmission in brain under extremal conditions	Palladin Institute of Biochemistry	Borisova Tatiana	\$120 000							US:2 Canada:2 EU:7
3226	Development of the technology for production of semi-conducting silicon carbide substrates for creation of optical mirrors	Institute of Semiconductor Physics	Maslov Petrovich Volodymyr	\$198 721							US:2 Canada:2 EU:7
3227	Optimization of cavities of coaxial gyrotrons for thermonuclear fusion applications	Kharkov National University By V.N.Karazin	Zaginaylov Gennadiy	\$170 569							US:1 Canada:1 EU:7
3228	Elaboration and application of an optimal neural network method for memory modeling	Kharkov National University By V.N.Karazin	Gopych Petro	\$51 100							US:1 Canada:1 EU:7

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18th Governing Board Meeting, June 17th, 2004

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3230	Development of biological system for rapid application of pharmacological substances to the cells and tissue cultures	"Lileya" Small Scientific Production Enterprise	Petrenko Serhiy Fedorovich	\$133 742							US:2 Canada:2 EU:7
3231	Modeling of hair cell dynamics and interaction with environment	Institute of Physics	Kondrachuk Oleksandr	\$65 000							US:2 Canada:2 EU:7
3232	Creation of immunostimulating biocomposites for using in agriculture and animal husbandry	"Agrobiotech" Interbranch Scientific Technological Center	Vlasenko Vitaliy	\$170 296							US:1 Canada:1 EU:7
3234	Reasonable constructive techniques for suppression of oscillations in transport systems with movable liquid and elastic elements.	Timoshenko Institute of Mechanics	Zakrzhevskyy Oleksandr Evgenievych	\$125 000							US:1 Canada:1 EU:7
3235	Development of the Technology for Production of Briquettes and Pellets from Combustible Agricultural Waste	Institute of Engineering Thermophysics	Protsishin Borys	\$123 588							US:2 Canada:2 EU:7
3236	Scenario of growing crops on the silicates in lunar and terrestrial greenhouses	Institute of Molecular Biology and Genetics	Kordyum Vitalii	\$150 000							US:1 Canada:1 EU:7
3238	Development of Dose Assurance System for Radiotherapy	Institute of Semiconductor Physics	Bugay Oleksandr Arkadiyovich	\$119 974							US:1 Canada:1 EU:7
3239	Development of new sources of polarized photon radiation and its investigation techniques	"Kharkiv Institute of Physics and Technology" National Scientific Center	Ganenko Volodymyr Borysovych	\$89 875			€74 896			€74896	US:2 Canada:2 EU:5
3246	Combined optical components for the laser systems with large density of the light energy	Institute of Physical Optics	Burak Yaroslav	\$160 260							US:1 Canada:1 EU:7
3248	Development of the technology and equipment for biogas component separation by freezing carbon dioxide method	"Kharkiv Institute of Physics and Technology" National Scientific Center	Khazhmuradov Manap	\$76 800							US:2 Canada:2 EU:7
3249	Terahertz Electromagnetic Wave Generation from Quantum Nanostructures	Usikovs Institute of Radiophysics and Electronics	Popenko Nina	\$150 000							US:1 Canada:1 EU:7

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3250	Development of Methods of Long-term Damage and Residual Lifetime Analysis of Critical Components of Energy Installations	Timoshenko Institute of Mechanics	Golub Vladyslav	\$63 000							US:1 Canada:1 EU:7
3251	Raising of ability and durability of the reactor shell by means of the special technological treatment	Pul'uj Ternopil State Technical University	Yasniy Petro	\$106 600							US:1 Canada:1 EU:7
3252	Development of microwave technology for extraction of biological active and water-soluble substances from plant tissues	Department of Industrial Radioelectronics of International Academy of Informatization	Kalinin Lev	\$142 340							US:1 Canada:1 EU:7
3254	In-situ observation of growth pattern formation during directional solidification of two-component transparent substances under microgravity conditions (part II. External oscillation)	Kurdyumov Institute for Metal Physics	Zhivolub Eugen	\$150 000							US:2 Canada:2 EU:7
3255	Development of scientific-technological fundamentals of producing perfect semiconductor and composite in space, specialized process equipment"	Paton Electric Welding Institute	Asnis Jukhim	\$160 000							US:1 Canada:1 EU:7
3256	Development of technology of non-destructive testing defectness and stresses in space engineering objects using laser interferometry	Paton Electric Welding Institute	Lobanov Leonid Mikhailovich	\$120 000							US:1 Canada:1 EU:7
3258	Portable Optoelectronic Devices for Rapid - Diagnostics of Microcirculation and Other Important Blood Parameters	Glushkov Institute of Cybernetics	Voytovych Igor	\$290 000							US:1 Canada:1 EU:7

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3260	Development and scientific research of assembly technique of screwed joints with application of laser interference optical methods	"Laboratory of Complex Technologies" Joint-Stock Company	Kesariysky Alexander	\$129 900							US:1 Canada:1 EU:7
3264	Strainmeter with high accuracy class	Lviv Center of Institute of Space Research	Demyanyshyn Nataliya	\$120 000							US:1 Canada:1 EU:7
3268	Development of new sensors for monitoring gas media	Verkin Institute for Low Temperature Physics and Engineering	Kamarchuk V. Gennady	\$249 696			€208 080			€208080	US:1 Canada:1 EU:5
3270	Establishment of the International Scientific and Training High Frequency Electron Paramagnetic Resonance Research Center in Ukraine	Institute of Semiconductor Physics	Kalabukhova Kateryna Mykolayvna	\$180 000							US:2 Canada:2 EU:7
3277	Development of the sorption-membrane technology to utilize boron from natural waters and wastewaters	Institute of Colloid Chemistry and Water Chemistry	Mel'nyk Luydmyla	\$194 662							US:1 Canada:1 EU:7
3278	Development of methodology and Networked simulating tools on the base of the modified system NetALLTED with orientation on micro electromechanical systems (MEMS)	Informational Resources Research Institute at the National Technical University of Ukraine "Kyiv Polytechnical Institute"	Petrenko Anatoliy	\$201 211							US:1 Canada:1 EU:7
3279	Tool environment for support of expertise and independent verification of I&C SW relevant to NPP safety.	I&C System Certification Center. State Center for Regulation of Supplies and Service of Quality.	Konorev Boris	\$126 800							US:1 Canada:1 EU:7
3280	Advanced model of small-sized device for measuring of particle fluxes and dose loads	Kharkov National University By V.N.Karazin	Dudnyk Oleksiy	\$150 000							US:1 Canada:1 EU:7
3286	Development of Scientific Approach and Technology for Growing High-Quality Optical-Grade Germanium Crystals for Infrared Technique	Institute of Semiconductor Physics	Pekar Grigory	\$160 000							US:1 Canada:1 EU:7

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3289	Ultrashort Wave Propagation over Ocean Surface	Usikovs Institute of Radiophysics and Electronics	Ivanov Victor	\$78 760							US:1 Canada:1 EU:7
3290	Substantiation of the ways to reduce the natural radionuclides transfer to the environment and human body in uranium mining, extraction and processing sites	Marzeev Institute of Hygiene and Medical Ecology	Los' Ivan	\$381 914							US:1 Canada:1 EU:7
3291	The New Diesel Engine using the Conrod-Free Mechanism	Design Office Vool	Vool Alexiy	\$234 856							US:1 Canada:1 EU:7
3292	Control and inactivation of opportunistic fungi in water supply sources	Institute of Urology	Rudenko Adel	\$172 655							US:1 Canada:1 EU:7
3294	Development of hard-and-software complex of analysis of cardiomyocytes rhythms, for using in cellular cardiomioplastics	Institute of Molecular Biology and Genetics	Lukash Lyubov	\$225 510							US:1 Canada:1 EU:7
3295	Nanoparticle doped silica glasses: challenging materials for optoelectronics and laser technology	Institute for Surface Chemistry	Borysenko Mykola	\$169 732							US:2 Canada:2 EU:7
3296	Multi-Functional Shape Memory Alloys for Smart System Applications	Kurdyumov Institute for Metal Physics	Koval Yuriy M.	\$182 710							US:1 Canada:1 EU:7
3301	Distribution of Radiocarbon and Tritium around Ukrainian Nuclear Power Plants as an indicator of quality of nuclear technology	Marzeev Institute of Hygiene and Medical Ecology	Buzynnyy Mykhaylo Georgiyovych	\$214 200							US:1 Canada:1 EU:7
3303	The structural-functional analysis of seeds generated under altered gravity for the purpose of development methods of increasing plant tolerance to microgravity	Institute of Botany	Popova Antonina	\$97 000							US:1 Canada:1 EU:7
3304	Evaluation of the residual resource of operating reactors and analysis of prospective reactors for Ukrainian NPPs	"Institute for Nuclear Research" Scientific Center	Slisenko Vasyli.	\$187 501							US:2 Canada:2 EU:7

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3305	PECVD nanocrystalline-amorphous coatings based on nc-TiBx /a-SiC. Micro- and nano-mechanical investigation	Frantsevich Institute for Problems of Materials Science	Ivashchenko Volodymyr	\$77 491							US:1 Canada:1 EU:7
3309	Near - Infrared emitting thin-film electroluminescent devices.	Institute of Semiconductor Physics	Valakh Mykhailo Yakovych	\$161 000							US:1 Canada:1 EU:7
3312	Internal Combustion Engine with Thermochemical Recuperation	Institute of Engineering Thermophysics	Nosach Vilyam Grirorjevich	\$175 870							US:1 Canada:1 EU:7
3329	High fracture toughness ceramic-glass composite for dental application produced using nanopowders	Institute for Problems of Strength	Gogotsi Georgiy	\$195 000							US:1 Canada:1 EU:7
3358	Hydrogen sorbing, accumulating, holding and disorbing from metals under external and internal structure-changing attacks	"Kharkiv Institute of Physics and Technology" National Scientific Center	Morozov Oleksandr	\$196 100							US:1 Canada:1 EU:7
3378	Development of magnetoplasma compressor for generation of dense compression plasma flows of heavy noble gases	"Kharkiv Institute of Physics and Technology" National Scientific Center	Tereshin Vladimir Ivanovich	\$189 880							US:1 Canada:1 EU:7
Subtotal Regular Ukrainian Projects Approved:				\$38 000 638	\$1 653 114	\$25 000	€1 360 880	\$0	\$1 678 114	\$ 1678114 €1360880	
3002	Windpotential's and Grids' Research for Working out the Conception of Wind Energy Industry's Progress in Uzbekistan	Institute of Power Engineering and Automation	Nasirov Temurjon	\$183 518							US:2 Canada:2 EU:7
3024	Biotechnological important terapyrroles of propionic bacteria are isolating in Uzbekistan	Institute of Microbiology (Tashkent)	Gulyamova Tashkhan Gafurovna	\$155 523							US:1 Canada:1 EU:7
3030	Investigation of polyacrylonitrile fibre modification and finishing textile materials from its blend with cotton	Institute of Textile and Light Industry	Ergashev Karim	\$74 018							US:2 Canada:2 EU:7

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3032	Diagnostic complex for thermal monitoring and gas analysis of the state of gas and oil main pipelines.	Institute of Physics	Puchkovskaya A Galyna	\$366 033							US:2 Canada:2 EU:7
3055	Mathematical Models and Computer Technologies for Ecologic and Economic Problems Solution and Analysis	Glushkov Institute of Cybernetics	Deyneka Vasyl St.	\$180 000							US:1 Canada:1 EU:7
3060	Development of methodology and techniques for continuous acoustics emission monitoring of responsible objects under seismic load	Karpenko Institute of Physics and Mechanics	Andreykiv Oleksandr Yevhenovych	\$221 331							US:2 Canada:2 EU:7
3067 (J)	Development of method and instruments for hydrogen isotopes depth concentration analysis in materials of nuclear technology	Institute of Nuclear Physics; Tashkent	Artemov Sergey	\$179 485	\$89 743		-€74 785		\$89 743	\$ 89743 €-74785	US:5 Canada:2 EU:5
3069	Development of Efficient Technology for Precious Metals Extraction from <u>Secondary Raw Materials</u>	"Pivdenne" State Design Bureau	Kotyegov Volodymyr Yuriyovich	\$199 236		\$15 000	€80 000		\$15 000	\$ 15000 €80000	US:2 Canada:4, 5 EU:4, 5
3075	Development of energy saving heliotechnological complexes based on the semiconductor solar batteries of new generation	Institute of Semiconductor Physics	Litovchenko Vololodymyr Grygorovych	\$250 000							US:2 Canada:2 EU:7
3080	Development of the New Biocompatible Coatings Based on Fluorocontaining Polyurethane for Intravascular Stents	Institute of Physics	Soloshenko I. O.	\$254 834							US:2 Canada:2 EU:7
3081	Spectroscopic Information & Bound State Potential of Mirror Nuclei and Rates of Astrophysical (p, gamma) Reactions	Institute of Nuclear Physics	Artemov Sergey Viktorovich	\$234 000	\$234 000				\$234 000	\$ 234000	US:5 Canada:2 EU:7
3084	Development of methods and equipment for increasing cyclotron complex power and efficiency its industrial using	Scientific-Technological Enterprise "Tezlatgich"	Uzakov Yashin	\$300 000	\$150 000		€125 000		\$150 000	\$ 150000 €125000	US:5 Canada:2 EU:5

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3109	Solar Distilling Plant with Active Thermodynamic Contour	Scientific Association «Physics-Sun» Physical-Technical Institute	Tursunbaev Ildar	\$194 048							US:2 Canada:2 EU:7
3112	The Nanostructures Creation on the Base of Water-Soluble Polymers and their Mixtures	Institute of Macromolecular Chemistry	Lipatov Yuri Sergeevich	\$238 200							US:2 Canada:2 EU:7
3114	Development of semiconductor detectors of ionizing radiation on the basis of new physical and technological approaches (DETECTOR)	"Lvivska Polytechnica" State University	Ilchuk Grygorii	\$267 995							US:1 Canada:1 EU:7
3128	Influence of Ionizing Radiation on Diode pumped Solid State Laser: investigation and minimizing risks for applications	Institute of Physics	Negriyko Anatoliy	\$191 900							US:1 Canada:1 EU:7
3142	Development of novel porous glass-ceramics composites for thermal insulation and fire protection purposes	Scientific Research Institute for Space Engineering	Tulyaganov Dilshat Ubaydullayevich	\$104 052							US:2 Canada:2 EU:7
3149	Plasma-chemical technology for obtaining of hydrogen from hydrocarbon-containing wastes	Institute of Mechanical Engineering Problems	Solovey Viktor Vasilievich	\$184 952							US:2 Canada:2 EU:7
3155	Development of Production Technologies and Industrial Manufacture of Immunoenzymetic Test-systems for Determination of CHLAMYDIA TRACHOMATIS Markers	State Enterprise "Radiopreparat"	Chistyakov Pavel	\$56 031							US:2 Canada:2 EU:7
3162	Development of electroconductive textile materials and electrically heated systems based on conductive metallized and carbon fibers	Frantsevich Institute for Problems of Materials Science	Vishnyakov Leon	\$148 469							US:2 Canada:2 EU:7
3173	Development of new information tools for determination of water quality in the Aral Sea Area	Institute of General and Inorganic Chemistry	KAMILOVA Elena Vladimirovna	\$196 364	\$196 364				\$196 364	\$ 196364	US:5 Canada:2 EU:7

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3182	Development of mathematical models for calculating underground leaching parameters	Institute of Cybernetics	Kamilov Mirzaachmedovich Mirzayan	\$59 724							US:1 Canada:1 EU:7
3185	Research, Elaboration and Development of Ore Minerals Raw Materials and Waste Products of The Republic of Uzbekistan For New Welding Electrodes Production.	Agency for Promotion of Research and Innovative Projects	Saidov Rustam	\$185 906							US:1 Canada:1 EU:7
3186	Development of high-strength corrosion-resistant composite materials with a hybrid polymeric matrix and technologies of their obtaining	Society with the limited liability the Scientific production enterprise "Tehprom"	Gryaznov Igor Vasilevych	\$324 994							US:1 Canada:1 EU:7
3204	Magnetically and thermally modulated microwave absorption in YBCO films and irradiated twinned and detwinned single crystals.	Institute for Applied Physics	Kholbaev Isobek Kholbaevich	\$119 850							US:1 Canada:1 EU:7
3209	Investigation of nonlinear-optical properties of materials in femtosecond regime and frequency tuning of femtosecond laser pulses	Scientific and Technology Association "Akademprigor"	Usmanov Timurbek	\$189 732							US:1 Canada:1 EU:7
3241	Enantioselective Synthesis of Quinazoline Alkaloid Derivatives and study their biological activity	Institute of Chemistry of Plant Substances	Buranov Anvar	\$204 716	\$204 715				\$204 715	\$ 204715	US:5 Canada:2 EU:7
3274	Development of the technology for producing nanocrystalline oxide powders on the Large Solar Furnace: aluminum oxide	Institute of Material Sciences of Scientific-Production Association "Physics-Sun"	Salikhov Temur	\$121 604							US:1 Canada:1 EU:7
3287	Minimizing Effects of Terrorist Acts on Nuclear Energy Stations: Thermal Radiation Properties of Cerium	Institute of Material Sciences of Scientific-Production Association "Physics-Sun"	Salikhov Temur	\$88 354							US:2 Canada:2 EU:7

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3298	Monitoring of ecological processes in destabilised environment of South Aral Sea Region	Institute of the Aral Sea region's Socio-economic problems	Aimbetov Nagmet Kallievich	\$72 401							US:1 Canada:1 EU:7
3362	Development of new bioactive glasses and hydroxyapatite /glass-ceramic composites for use as hard tissue replacement implants	Scientific Research Institute for Space Engineering	Tulyaganov Dilshat Ubaydullayevich	\$147 745							US:1 Canada:1 EU:7
3365	Development and creation of the illicit cargoes determination system at the customs without opening the cargo.	Institute of Nuclear Physics	Yuldashev Bekhzod S.	\$329 366							US:1 Canada:1 EU:7
3487	Research On Sand Stabilization Techniques	Scientific Centre of Plant Production "Botanika"	Shomurodov Habibullo Fayzullaevich	\$261 456							US:1 Canada:1 EU:7
3501	Investigation of soy-bean proteins in treatment of malignant neoplasm	A.S.Sadikov Institute of Bioorganic Chemistry	Ibragimov Fazil	\$240 000							US:1 Canada:1 EU:7
Uzb-63	Development of a Vacuum Arc Treatment for Electro-Conductive Material Surface	Institute of Electronics	Pozharov Sergey Leonidovich	\$86 148							US:2 Canada:2 EU:7
Uzb-75(C)	Development of Biosensors for Pesticides Determination in the Environment of Cotton Cultivating Countries	A.S.Sadikov Institute of Bioorganic Chemistry	Veshkurova Olga	\$199 999							US:2 Canada:2 EU:7
Uzb-82	Optimization of Thin-Walled Elements and Elastic-Damper Systems of Cushioned Suspensions of the Aircraft Equipment	Tashkent State Air Institute	Ganihanov Sharafutdin Fashutdinovich	\$124 000							US:1 Canada:1 EU:7
Uzb-89	Sewage Radionuclids and Heavy-Metal Ions Deep Purification Technology	Zhukovskiy National Aerospace University	Ugryumov M. L.	\$262 000							US:2 Canada:2 EU:7
Uzb-90	Sewage Utilization Technology Designing	Institute of Nuclear Physics	Muminov Muhtar I.	\$200 310							US:2 Canada:2 EU:7
Uzb-91	Development of the Radioactive Sources for the X-Ray Fluorescence Analysis and Control of Technological Processes	Institute of Nuclear Physics	Kim German N.	\$229 760							US:2 Canada:2 EU:7

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Uzb-92	Control and monitoring of toxic metals accumulation in crops	Institute of Plan Physiology and Genetics	Tyshchenko Elena Nikolaevna	\$149 900							US:2 Canada:2 EU:7
Uzb-93	Electromagnetic processes in the relativistic highly charged ion-atom collisions.	Heat Physics Department	Matrasulov Davron U.	\$44 400							US:1 Canada:1 EU:7
Uzb-98	Development of the wasteless technology and creation of the pilot industrial production of gossypol and lecithin from cotton oil and cotton seed oil cake	A.S.Sadikov Institute of Bioorganic Chemistry	Turaev Abbaskhan S.	\$183 300	\$30 000				\$30 000	\$ 30000	US:4, 6 Canada:2 EU:7
Uzb-101	Development of the engine with HF heating of the working substance for the orbit correction of the telecommunication	"Kharkiv Institute of Physics and Technology" National Scientific Center	Kobets Anatolij Pylypovych	\$210 000							US:2 Canada:2 EU:7
Uzb-108	Filled and Polymer-Polymeric Nanocomposites creation on the base of Polyamide-6 for construction use.	Institute of Polymer Chemistry and Physics	Ashurov Nigmat Rustamovich	\$150 000							US:2 Canada:2 EU:7
Uzb-112	Development of the Complex for Membrane Production for Gases and Liquids Refinement	"Kharkiv Institute of Physics and Technology" National Scientific Center	Bomko Vasyl	\$215 000							US:2 Canada:2 EU:7
Uzb-113	Quasi-elastic light scattering and cooperative phenomena in disordered lattice of super-ionic conductors	Heat Physics Department	Krivorotov Valeriy Fedorovich	\$56 000							US:1 Canada:1 EU:7
Uzb-115	Ultrasonic Aerosol Inhaler	"NITOM"; The scientific and technical enterprise	Tkachenko Galina	\$88 400							US:1 Canada:1 EU:7
Uzb-116	Complex Studies of Magnetoresonance, Magnetic, Magneto optic and Thermal Properties of Fullerite Doped with Gases	Verkin Institute for Low Temperature Physics and Engineering; Kharkiv	Aleksandrovskii Anatolii	\$40 000	\$40 000				\$40 000	\$ 40000	US:5 Canada:2 EU:7
Uzb-120	System for purification of drinking water	Institute of Nuclear Physics	Khaydarov Rashid	\$142 620							US:2 Canada:2 EU:7
Uzb-127	Investigation of rapid transient phenomena in gravitational lens systems: observations and theory	Ulugh Beg Astronomical Institute	Nuritdinov Salakhutdin	\$237 100	\$200 000				\$200 000	\$ 200000	US:4, 5 Canada:2 EU:7

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Uzb-128	Developing a method and equipment for electric- pulse purification of industrial sewage by using the vibrational - impact effect	Institute of Power Engineering and Automation	Islamov Bahodir Ikramovich	\$214 000							US:2 Canada:2 EU:7
Uzb-130	Development of Technology for Production of Carbon Nanostructural Composite Materials	Institute of Nuclear Physics	Khidirov Irsali	\$269 900							US:2 Canada:2 EU:7
Uzb-132	Development astrophysical set-up on the base of Large Solar Furnace	Scientific Association «Physics-Sun» Physical-Technical Institute	Lutpullaev Sagdylla	\$202 000							US:1 Canada:1 EU:7
Uzb-133	The new approach to studying physics of solar-atmospheric relations and extreme ecological phenomena on the basis of the hypothesis of non-local interaction of dissipative	Bugaev V. A. The Central Asian research and development hydrometeorological institute	Arushanov Mihail	\$149 107							US:1 Canada:1 EU:7
Uzb-134	Research and development of technique and technology of cotton seed growth stimulation	Bukhara regional centre of science	Safarov Adil	\$180 000							US:2 Canada:2 EU:7
Uzb-136	Production and Technology of Protective Films and Coatings Based on Ion Implantation and Investigation of their Properties	SPA "Academpribor", Tashkent Donetsk National University	Radjabov Telman	\$150 000	-\$75 000		-€65 000		-\$75 000	\$ -75000 €-65000	US:5 Canada:2 EU:5
Subtotal Regular Uzbek Projects Approved:				\$10 309 781	\$1 069 822	\$15 000	€65 215	\$0	\$1 084 822	\$ 1084822 €65215	
3054	Two-colour laser projection screen on the basis of doped cholesteric liquid crystals	Institute of Physics	Ilchishin Igor Pavlovych	\$198 780							US:1 Canada:1 EU:7
3127	Integrated system for hazardous flood modelling and risks reduction: case study for Tisza (Ukraine), Rionv. (Georgia) rivers	Glushkov Institute of Cybernetics	Norkin I. V.	\$180 000			€150 000			€150000	US:2 Canada:2 EU:5
3133	Solitons and Breathers in Condensed Media	Georgian Technical University	Adamashvili Guram	\$100 000							US:2 Canada:2 EU:7

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The STCU Funding Table
18th Governing Board Meeting, June 17th, 2004

#	Full Title	Leading Institution	Project Manager	Requested Funds	USA (US \$)	Canada (US \$)	European Union (EURO)	Other (US \$)	Total Funding (US \$)	Total Funding (US \$ + EURO)	Comments Conditions
3137	Fabrication, Testing and Techno-Economic Comparison of Novel Photovoltaic Modules with Different Optical Concentrators	"OPTICA" Scientific Research Institute	Avaliani Jemal	\$48 000							US:2 Canada:2 EU:7
3143	Development of the New Biological Active Polymeric Materials for Medicine	Institute of Macromolecular Chemistry	Galatenko Natalia	\$306 667							US:2 Canada:2 EU:7
3154	Development of Basics, Methods, Technical Facilities for Evaluation of Human in Unfavorable Ecological Conditions Adaptation Processes	Tbilisi State Medical University	Jaiani Sergo	\$187 990							US:2 Canada:2 EU:7
3163	Special purpose polymer composites from petroleum products, mineral raw materials, industrial or post-consumer waste from Transcaucasus	Lviv Center of Institute of Space Research	Fainleib Oleksandr Markovykh	\$260 000							US:2 Canada:2 EU:7
3164	Development of low temperature resistance biogas-digester for sub-continental and cold climatic zones	Union 'Bioenergy'	Bitsadze Bitsadze Philimon	\$120 920							US:1 Canada:1 EU:7
3179	The investigation of ultrastructural changes of cytoskeleton in biopsies and postoperative materials	Tbilisi State Medical University	Ekaterine Kidiashvili	\$109 853							US:1 Canada:1 EU:7
3259	Investigation, Technology Development and Creation of the Solar Energy Drier Unit for Subtropical Persimmon	"OPTICA" Scientific Research Institute	Avaliani Jemal	\$27 120			€22 600			€22600	US:2 Canada:2 EU:5
3263	Individual Protective Sheets of Basalt-Titanium-Aluminum Ceramics by Hot Vacuum Compaction	Institute of Mining Mechanics	Chikhradze Nikoloz	\$187 950							US:1 Canada:1 EU:7
3269	Mathematical methods for investigation of ecological problems: analysis, synthesis, and control	Glushkov Institute of Cybernetics	Skopetsky VasyI	\$183 003							US:1 Canada:1 EU:7
3285	A new experimental approach to the problem of insomnia	Georgian Sleep Research Institute	Eliozishvili Marine	\$299 250							US:2 Canada:2 EU:7

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The STCU Funding Table
18th Governing Board Meeting, June 17th, 2004

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Gr-27	Multicriterial Optimization of Adaptive Sensors Developed for Ecological Monitoring	Institute of Control Systems	Salukvadze Mindia	\$139 000							US:2 Canada:2 EU:7
Gr-44	System of computer-aided design of information and control systems (I&C) for technological processes (SCADA/MMI system)	Georgian Technical University	Gogichaishvily Georgy G.	\$169 970							US:2 Canada:2 EU:7
Gr-47	Plasticity of titanium and its alloys in high-strength state	Frantsevich Institute for Problems of Materials Science	Minakov Veniamin Mikolainovich	\$246 449							US:1 Canada:1 EU:7
Gr-66	Development of Microdispersed Nanostructures at the Surface of Objects which Operate under Extreme Conditions of Loading	Georgian Technical University	Sulamanidze Artur Konstantinovich	\$172 000							US:2 Canada:2 EU:7
Gr-77	Development of Newest Methods and Optochemotronk Sensors for Liquids Assays on a Base of Electro-chemiluminescent Molecular Condensed Langmuir-Blodgett Films with New Electrochnciluminescers	Kharkiv National University of Radio Electronics	Mykola Rozhitskii	\$169 540			€ 141 283			€ 141283	US:1 Canada:1 EU:5
Gr-79	Researches, Design, Development and Integration of Environmentally Clean Ozone-Safe System of Fire/Explosion prevention on launch vehicles for international programs	"Pivdenne" State Design Bureau	Nezhovany Evgen Petrovych	\$195 000							US:2 Canada:2 EU:7
Gr-87	Elaboration and Investigation of High-Effective Si-Ge System Alloys.	F. Tavazde Institute of Metallurgy	Darsavelidze George Sh.	\$149 730	\$149 730				\$149 730	\$ 149730	US:5 Canada:2 EU:7
Gr-88	Development of the mobile arc plasma apparatus for fussing of hard materials	Institute of Mining Mechanics	Gelenidze Medgari	\$182 710							US:2 Canada:2 EU:7
Gr-94	Development of Technology for Manufacture Heatproof Ceramic Elements for High Temperature Gas Turbines	"Pivdenne" State Design Bureau	Shnyakin V	\$120 000							US:2 Canada:2 EU:7

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The STCU Funding Table
18th Governing Board Meeting, June 17th, 2004

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Gr-95	Technology and Equipment for Production of Prepregs from Various Fillers by Method of "Dry" Infiltration	"AINSKI" Scientific-Production Company	Mgaloblishvili Yuza Volodimirovich	\$195 000			-€106 208			€-106208	US:2 Canada:2 EU:7
Gr-96	Development of the effective bacterial leaching technology of low grade manganese ores and slimes	Caucasian Institute of Mineral Resource	Shakhvadze Lamara	\$242 210							US:1 Canada:1 EU:7
Gr-100	Brazing Technology of Metals to Ceramics	Georgian Technical University	Okrosashvili Michael	\$159 900							US:2 Canada:2 EU:7
Gr-105	Development of a New High-Performance and Ecologically Clean Technology for Arsenic Sulfide Ores Processing	Georgian Technical University Training and Research Center for Chemical Technology and Management	Iashvili Tengiz	\$198 287	\$198 287				\$198 287	\$ 198287	US:4, 5 Canada:2 EU:7
Gr-107	Development of New Structural Materials for Neutralization and Location of Neutron Irradiation Sources	Institute of Physical and Organic Chemistry of NASG	Givi Papava	\$97 710							US:2 Canada:2 EU:7
Gr-113	Elaboration of Highly-active intestinal and staphylococcal bacteriophages in suppository forms for the application in a medical practice.	Institute of Bacteriophagy, Microbiology and Virology	Giorgadze Inga	\$142 720							US:2 Canada:2 EU:7
Gr-116	Liquid Crystal Laser	Institute of Cybernetics	Tsintsadze Givi	\$94 000							US:2 Canada:2 EU:7
Gr-117	Development new technology for cladding surfaces by cumulative charges	"Delta" Research and Development Center	Kabulashvili Vaja	\$131 360							US:1 Canada:1 EU:7
Gr-121	Prolonged acting, high effective, antimastitis preparation composed of bacteriophages, hyaluronidase and	Georgian Technical University	Beridze Vakhtang	\$249 080							US:2 Canada:2 EU:7
Gr-122	Creating plant bioconcentrates with high antiradiation and anticarcinogenic action on the base of polyphenols and working out industrial technology for their	Durmishidze Institute of Biochemistry and Biotechnology	Pruidze Guram	\$191 900	\$30 000		€134 917		\$30 000	\$ 30000 €134917	US:5 Canada:2 EU:5

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Gr-123	Comparative Analysis of an Etiological Role and Specific Gravity of E.Coli in the Development of Inflammatory Processes in Suppurative Surgery and Urology	G. Eliava institute of Bacteriophage, microbiology and virology	Tchghkonია Irine	\$60 900							US:1 Canada:1 EU:7
Gr-124	Study of the Possibility of the Phagoprophylaxis of Supportive Infections at Hospital of Pure Tissue	G. Eliava institute of Bacteriophage, microbiology and virology	Dzidzishvili Luisa	\$51 660							US:1 Canada:1 EU:7
Gr-125	Creation of the new paramedical remedy and its application to the treatment and the prevention of the heart ischemia disease	Scientific Laboratory-Enterprise "PIGMENTI" LTD.	Kochlamazashvili Avtandil	\$125 029							US:2 Canada:2 EU:7
Gr-126	Explosive fabrication of novel materials from nanocrystalline powders	Institute of Mining Mechanics	Chikhradze Nikoloz	\$123 350							US:1 Canada:1 EU:7
Gr-127	Pulse plasma jet generator	Georgian Technical University	Gelenidze Medgar Noe	\$205 355							US:2 Canada:2
Gr-131	Creation of the treatment-and-prophylactic phage preparation against pathogenic e coli in animals	Zooveterinary Academy of Georgia	Gabisonia Tarasi	\$52 000							US:1 Canada:1 EU:7
Gr-133	Analytical and Software Representation of Two-stage Algorithm of Guaranteed Identification of Plants Simulated by Differential Equations	RI "Automation & Industry"	Odisharia Gocha B.	\$124 000	\$124 000				\$124 000	\$ 124000	US:5 Canada:2 EU:7
Subtotal Regular Georgian Projects Approved:				\$6 198 393	\$502 017	\$0	€342 592	\$0	\$502 017	\$ 502017 €342592	
3237	Investigations of Layered III-VI Crystals and Epitaxial Films for Applications in Photoelectronics and Non-linear Optics	Chernivtsi Department of the Institute of Materials Science Problems	Kovalyuk Zakhar	\$195 000							US:1 Canada:1 EU:7
3319	Geophysical prospecting technology development for petroleum search at shelf zones by geoelectromagnetic fields scanning	Institute of Geology and Geophysics	Novruzov Etibar Sejfulla	\$196 000							US:1 Canada:1 EU:7
3333	Nanostructural trends in the forming of new glassy-like materials for optoelectronics	Vernadskii Institute of General and Inorganic Chemistry	Volkov Sergij	\$195 250							US:1 Canada:1 EU:7

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18th Governing Board Meeting, June 17th, 2004

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3363	Cyberterrorism after September 11, 2001: critical infrastructure threats assessment and analysis of their neutralization methods	Geology Institute	Ibrahimov Vagif B.	\$91 000							US:1 Canada:1 EU:7
Azr-01 (j)	Creating the solar furnace on base of a military searchlight to the fullerene manufacturing	Azerbaijani Architectural Engineering Institute	Amdulla Mekhrabov	\$199 000							US:2 Canada:2 EU:7
Azr-02 (j)	Technology Development of Reversible High-Capacity Hydrogenation of Fullerene-Similar Materials and Nanostructural Carbon	Radiational Investigation Institute	Aflatun Ghasanov Mursal oqlu	\$210 000	\$210 000				\$210 000		US:5 Canada:2 EU:7
Subtotal Regular Azerbaijan Projects Approved:				\$1 086 250	\$210 000	\$0	€0	\$0	\$210 000	\$ 210000 €0	
Subtotal Regular Projects Approved:				\$55 595 062	\$3 434 953	\$40 000	€1 768 687	\$0	\$3 474 953	\$ 3474953 €1768687	
P004F	Protocol for the Study of Thyroid Cancer and Other Thyroid Disorders in Ukraine Following the Chernobyl Accident	Institute of Endocrinology and Metabolism of AMSU	Tronko Mykola	\$681 489	\$681 489				\$681 489	\$ 681489	US: Canada: EU:
P004E2	Protocol for the Study of Thyroid Cancer and Other Thyroid Disorders in Ukraine Following the Chernobyl Accident	Institute of Endocrinology and Metabolism of AMSU	Tronko Mykola	\$71 783	\$71 783				\$71 783	\$ 71783	US: Canada: EU:
P005d	New classes of organic compounds for testing as potential crop protection chemicals for agricultural use	Institute of Organic Chemistry of NASU	Sinitsa Anatoliy	\$252 000	\$252 000				\$252 000	\$ 252000	US: Canada: EU:
P085b	Health Effects of Chernobyl Accident	Center for Radiation Medicine of AMSU	Bazyka Dimitry Anatolievich	€ 8 000			€ 8 000			\$ €8000	US: Canada: EU:

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P094a	Evaluation of heat transport in tokamak edge plasma in the presence of magnetic field ergodicity	National Science Center "Kharkiv Institute of Physics and Technology"	Kasilov Sergei	€ 12,500			€ 12,500			\$ € 12500	US: Canada: EU:
P100b	Conducting Polymer Composites	Institute of Bioorganic Chemistry and Petrochemistry	Shapoval Galina	€ 37,000			€ 37,000			\$ € 37000	US: Canada: EU:
P121a	Characterization and Molecular Mapping of Phytochromes and Flowering Genes in Cotton	Institute of Genetics and Plant experimental Biology of the Academy of Sciences of Republic of Uzbekistan	Abdurakhmonov Ibrokhim	\$21,000	\$21,000				\$21,000	\$ 21000	US: Canada: EU:
P132	Ti-based metal matrix composites reinforced with TiB particles	Institute of Metal Physics	Orest M.Ivasishin	\$100,000	\$100,000				\$100,000	\$ 100000	US: Canada: EU:
P142	Application of Molecular Fingerprinting to Geographical Characterization and Epidemiological Surveillance of Natural foci of Yersinia pestis and Francisella tularensis in the Republic of Georgia	National Center for Disease Control of Georgia	Ioseb Velijanashvili	\$80,000	\$80,000				\$80,000	\$ 80000	US: Canada: EU:
Subtotal Partner Projects Approved:				\$1,206,272 €57,500	\$1,206,272	\$0	€ 57,500	\$0	\$1,206,272	\$ 1206272 € 57500	
TOTAL:				\$56,801,334 €57,500	\$4,641,225	\$40,000	€ 1,826,187	\$0	\$4,681,225	\$ 4681225 € 1826187	

Status 4 - Comments:

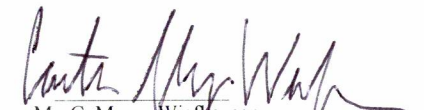
- 3017 - Funded as PDG by USA at 17 GBM
- 3028 - PDG - Contact Elizabeth Cameron at the U.S. Department of State for PDG comment. Also, must find new U.S. Department of State approved U.S. collaborator
- 3029 - Funded as PDG by USA at 17 GBM
- 3069 - Address reduced funding level in workplan.
- Gr-105 - Final funding commitment contingent upon U.S. Department of State approval. Contact Jason Witow at the U.S. Department of State for guidance.
- Uzb-98 - PDG - Contact Christina Murata at the U.S. Department of State for PDG comment.
- Uzb-127 - Final funding commitment contingent upon U.S. Department of State approval. Contact Jason Witow at the U.S. Department of State for guidance.


Mr. V. Alessi
USA
Board Member


Mr. Y. C. Pan
Canadian
Board Member


Mr. Y. Yatskiv
Ukrainian
Board Member


Mr. D. Gambier
EU Board Member
(for the European Commission)


Mr. C. Meyer-Wieffhausen
EU Board Member
(for the EU Presidency)

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