15th Governing Board Meeting, December 12, 2002

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#	Full Title	Leading Institution	Project Manager	Requested Funds	USA (US \$)	Canada (US \$)	European Union (EURO)	Other (US \$)	Total Funding (US \$)	Total Funding (US \$ + EURO)	Comment
881 (C)	Part b: Modification of the Structure and Surface Layer Properties of the Hard Magnetic Materials under their Irradiation with the Pulsed Plasma Streams	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Tereshin Volodymyr	\$150,634	\$150,634				\$150,634	\$ 150634	US:5 Canada:2 EU:2
991	Research of Possible Stabilization Forms for Quas Isomorphic Activator Centers in High Melting Complex Oxide Single Crystals and Development of New Scintillation and Laser Materials on Their Basis	"institute for Single Crystāls" Scientific and Technological Concern; Kharkiv	Malyukin Yurii	\$150,000							US:1 Canada:1 EU:2
1413	Development of Element Base and Principles of Construction of Radartracking Means for Guaranteed Increase of a Level of Safety of Traffic in Difficult Conditions	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Lutsenko Vladislav	\$167,101							US:2 Canada:2 EU:2 US:2
1577 (J)	Investigation of Reactor Irradiation Effect on Radiation Stability and Mechanical Properties of Articles from Zirconium Alloys after High-Speed High-Frequency Treatment	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Stukalov Anatoliy								Canada:2 EU:2
1587	Development of the New Technology of the New Class of Metal Insulator Materials for Magnetoresistive Sensors	Institute of Magnetism; Kyiv	Belokolos Eugene	\$82,812							US:1 Canada:1 EU:2
1600	Market Study of Bioenergy Technologies and Development of Bioenergy Concept in Ukraine	Institute of Engineering Thermophysics; Kyiv	Geletukha Georgii G.	\$75,000						Ę	US:2 Canada:2 EU:2
1605	Optical Dust Concentration Meter for Ecological and Technological Control of Smoke and Exhaust Gases "Dust Meter"	"Ukrainian Research and Development Institute of Analytical Instrumentation" Open Joint Stock Company; Kyiv	Mikhlejeva Inna	\$153,425							US:2 Canada:2 EU:2
1623	Interaction of ZrO2 with Metal Melts and the Development of Products for Industry and Everyday Life	Bakul Institute for Superhard Materials; Kyiv	Perevertailo Vasyl	\$130,000							US:2 Canada:2 EU:2
1628	Development of the Method of Assessment and Techniques for Prevention the Hydrogen Degradation of Metals	Karpenko Institute of Physics and Mechanics; Lviv	Andrejkiv Olexander	\$148,960							US:2 Canada:2 EU:2
1637	Interactive System for Representation of Video Information	"Technology" Small Production Enterprise; Vyshneve	Kadan Victor	\$193,146							US:1 Canada:1 EU:2
1647	Laser Excitation of Quick-Running Chemical Reactions in a Condensed Medium	"Pivdenne" State Design Bureau; Dnipropetrovsk	Buntchuk Yuriy	\$172,350							US:2 Canada:2 EU:2
1657	The Growth of High-Quality Acousto-Optical Mercurous Chloride Hg2Cl2 Single Crystals	"Elent A", Non-Traditional Technologies Science and Engineering Center; Dnipropetrovsk	Akimov Sergiy	\$140,260							US:1 Canada:1 EU:2

Review Incomplete
 Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

#	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
1658	Growing of High-Quality Acousto-Optic and Electro Optic NaBi(MoO4)2 and LiNbO3 Single Crystals	"Elent A" , Non-Traditional Technologies Science and Engineering Center; Dnipropetrovsk	Akimov Sergii	\$163,500	ļ						US:2 Canada:2 EU:2
1669	Development and Research of Screening Construction with the Use of Amorphous and Polycrystalline Materials	International Science and Technology University; Kyiv	Kazantsev Victor	\$52,975							US:2 Canada:2 EU:2
1677	Surface Hardening of Titanium Alloys for Improving Fatigue Strength and Life	Karpenko Institute of Physics and Mechanics; Lviv	Fedirko Victor M.	\$135,000	\$121,500	\$13,500			\$135,000	\$ 135000	US:5 Canada:5 EU:2
1682	Development of a Technology of Processing Ballistite Rocket Propellants in Civil Explosives	"Proton" Research and Design Center; Lviv	Chuchmaryev Olexander S.	\$82,800							US:1 Canada:1 EU:1
1683	Development of a Technology of Processing Perchlorate Rocket Propellants in Civil Explosives	"Proton" Research and Design Center; Lviv	Chuchmaryev Olexander S.	\$81,000	\$72,900	\$8,100			\$81,000	\$ 81000	US:5 Canada:5 EU:1
1685 (R)	Predicting Seismic Hazard Dynamics Based on Complex Geophysical Monitoring Data	Subbotin Institute of Geophysics; Lviv	Verbytskyi Taras	\$184,279							US:1 Canada:1 EU:2
1686	Creation of Radiophysic Methods for Detection of Infrasound Pollution of Atmosphere	Lviv Center of Institute of Space Research; Lviv	Soroka Silvestr	\$120,000							US:1 Canada:1 EU:2
1692	Development the Energy Saving Installation of a Fuel Submission for Gas-Turbine Engines	Ivano-Frankivsk State Technical University of Oil and Gas; Ivano- Frankivsk	Kozak Lyubomyr	\$55,000							US:2 Canada:2 EU:2
1701	Development and Creation of Neural Networks of Ultra-High Productivity, Learning Effectiveness, Exactness and Reliability	State Scientific and Research Institute of Information Infrastructure; Lviv	Hrytsyk Volodymyr V.	\$167,877							US:2 Canada:2 EU:2
1702		State Scientific and Research Institute of Information Infrastructure; Lviv	Hrytsyk Volodymyr V.	\$183,994		\$18,399	€165,595			\$ 18399 € 165595	US:1 Canada:5 EU:5
1705	Multifunctional Associative Memory of Large Volume, Response, Reliability on the Basis of Simulated Neural Networks	State Scientific and Research Institute of Information Infrastructure; Lviv	Hrytsyk Volodymyr V.	\$160,339							US:1 Canada:1 EU:2
1709	Elaboration of Laser-Based and Combined Intercalation Methods for Nanotechnologies of Low Dimension Structures	Stefanyk Precarpathian University; Ivano-Frankivsk	Ostafiychuk Bogdan K.	\$148,200	\$148,200				\$148,200	\$ 148200	US:5 Canada:2 EU:2
1716	Prediction of Gelio-Technogenic Influence on	State Scientific and Research Institute of Information Infrastructure; Lviv	Hrytsyk Volodymyr V.	\$94,776							US:2 Canada:2 EU:2
	Catalogue "Ukrainian Icon XIII-XVIII c."	State Scientific and Research Institute of Information Infrastructure; Lviv	Stekh Stefania	\$69,738							US:1 Canada:1 EU:2

^{1.} Review Incomplete

^{2.} Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

15 th Governing Board Meeting, December	12,	2002
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#	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
1719	Increase of Operational Resources for Nuclear Industry Applications	Nuclear Power Plant Operational Support Institute; Kyiv	igor Klymenko	\$129,513	\$129,513				\$129,513	\$ 129513	US:5 Canada:2 EU:2
1744	Enlargement of Three Dimensional Holographic Memory Capacity	Kharkiv Military University; Kharkiv	Kupchenko Leonid F.	\$95,200							US:1 Canada:1 EU:2
1745	Polycrystal Composite Superhard Materials Based on Diamond Ultrafine Powders	Bakul Institute for Superhard Materials; Kyiv	Shul'zhenko O.O.	\$123,850		\$12,385	€111,465		\$12,385	\$ 12385 € 111465	US:2 Canada:5 EU:5
1748	Development of the Superlight Aircraft of New Generation	"Kharkiv Aviation Institute" State Space University; Kharkiv	Neshmonin Petro	\$130,315							US:1 Canada:1 EU:2
1765	Development of the Methods for Modification and Optimization of Gas-Aerosol Release Monitoring System of VVER Equipped NPP	Kharkiv State University; Kharkiv	Rudychev Volodymyr G.	\$149,864							US:2 Canada:2 EU:2
1767	Development of Radio Devices for Monitoring of Parameters of Physical Environments, Functional Materials and Coatings	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Maystrenko Yurii	\$94,380							US:1 Canada:1 EU:2
1768	Radioactive Enhancement of Treatment by platinum cytostatics	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Dikiy Mykola	\$80,000					_		US:1 Canada:1 EU:2
1774	Creation of Protective Thick Metal-Metalloid Coatings with Quasiamorphous Heterostructure by High-Speed Ion-Atomic Sputtering Method	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Gann Volodymyr	\$68,816							US:2 Canada:2 EU:2
1783	Combined Plasma Source with Regulated Contents of Flow Components	"Kharkiv Aviation Institute" State Space University; Kharkiv	Kolesnik Volodymyr P.	\$96,767							US:2 Canada:2 EU:2
1789	Alloyed Diamond-Like Carbon Films - New Material for Optics and Electronics	"Institute for Single Crystals" Scientific and Technological Concern; Kharkiv	Semenov A.V.	\$88,051							US:1 Canada:1 EU:2
1790	Super Hard Coatings of Boron-Nitrides for Tools	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Safonov Volodymyr J.	\$99,950							US:2 Canada:2 EU:2
1792	Organization of Ion Preparation Processes of Metal Product Surfaces for Deposition of Coatings in Vacuum	"Kharkiv Aviation Institute" State Space University; Kharkiv	Kolesnik Volodymyr P.	\$124,394							US:2 Canada:2 EU:2
1793	Development of Single Crystal Growth Technology and Exploration of Properties of Antiferromagnetic Garnets for Optical and Magneto-Optical Recording	"Institute for Single Crystals" Scientific and Technological Concern; Kharkiv	Kosmyna Myron	\$110,000							US:1 Canada:1 EU:2
1796	Neutron Source for Boron-Neutron-Capture Therapy (BNCT)	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Sanin Vasyl' M.	\$99,714							US:2 Canada:2 EU:1

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 Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

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#	Full Title	Leading Institution	Project Manager	Requested Funds	USA (US \$)	Canada (US \$)	European Union (EURO)	Other (US \$)	Total Funding (US \$)	Total Funding (US \$ + EURO)	Comment Condition
1797	Complex for Radio Nuclide Production on the Basis of Ion Linear Accelerator	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Bomko Vasyl	\$99,714				-			US:2 Canada:2 EU:1
1798	Fluoride Single Crystals for Electronics and Medicine	"Institute for Single Crystals" Scientific and Technological Concern; Kharkiv	Blank Abram	\$151,300	<u> </u>						US:1 Canada:1 EU:2
1799	Soil Moisture Mapping	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Timchenko Alla I.	\$102,685				<u>-</u>			US:2 Canada:2 EU:2
1815	Flexible intercity traffic radar control system	"Ukrinformzakhist" State Science- and Production Center of Information Technical Protection; Kyiv	Kovbasa Olexij	\$180,700							US:2 Canada:2 EU:2
1823	Development and Experimental Researches of Non-Destructive Methods of Predictive Diagnosing of Products of Electronics	"Mykroprylad" Public Enterprise Scientific and Research Institute; Kyiv	Soldatenko Leonid M.	\$152,300							US:1 Canada:1 EU:2
1826	HF Ultra Wide-Band Radars for Environmental Monitoring	"Ukrinformzakhist" State Science- and Production Center of Information Technical Protection; Kyiv	Shayda Volodymyr	\$187,150							US:2 Canada:2 EU:2
1835	Technology of Self-Adjustment Chemical- Mechanical Polishing for Surface Planarization with Refractory Materials	Bakul Institute for Superhard Materials; Kyiv	Stachniv Mykola	\$108,000		-					US:1 Canada:1 EU:2
1837	New Corrosion-Resistant and Wear-Resistant Coating for Oil and Gas Industry Equipment	Frantsevich Institute for Problems of Materials Science; Kyiv	Slys I.	\$120,000							US:1 Canada:1 EU:2
1847	Structure and Properties of Eutectically Reinforced Materials Based on Titanium Intermetallics and Silicides	Frantsevich Institute for Problems of Materials Science; Kyiv	Firstov Sergii O.	\$120,000							US:1 Canada:1 EU:2
1855	Research and Development of Super-Low Noise Interferency-Protected Magnetometers	Lviv Center of Institute of Space Research; Lviv	Korepanov Valerii	\$195,000							US:2 Canada:2 EU:2
1858	Methods and Instrumentation Development for Radio and Acoustic Atmosphere and Marine Environment Diagnostics	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Ivanov V.K.	\$117,870							US:2 Canada:2 EU:2
1861	The Influence of Stochastic Electromagnetic Radiation on Substances	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Bez'yazychnyj Ivan A.	\$156,960							US:1 Canada:1 EU:2
1863	Research into the Interaction Between Energetically Saturated Plasma and High- Frequency Antenna Interface to Enhance the Efficiency of Plasma Heating in Magnetic Fusion Devices and to Improve High-Frequency Vacuum- Plasma Technology Systems	Kharkiv State University; Kharkiv	Girka Igor	\$193,710							US:1 Canada:1 EU:2

^{1.} Review Incomplete

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^{2.} Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

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1875	Multispectrum Receiving Complex for Early Warning of Human Created Disasters	"Iceberg" State Research Center; Kyiv	Radzikhovsky Vasyl	\$120,000							US:2 Canada:2 EU:2
1885	Design of New Means of Remote Sensing for Aerospace Ecological and Biological Monitoring of Natural Environment	"Kharkiv Aviation Institute" State Space University; Kharkiv	VOLOSYUK Valery	\$67,590							US:2 Canada:2 EU:2
1886	Multifunctional Vacuumed Microwave Technology Apparatus	Kharkiv State University; Kharkiv	Popov Victor S.	\$94,000							US:1 Canada:1 EU:2
1888	Investigation of Mechanisms for Dust Production and Transportation in Radiation Fields at Chomobyl	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Meľnyk Yurii P.	\$84,810							US:1 Canada:1 EU:2
1889	Detection System for a Positron-Emission Tomograph Based on Silicon Pad Sensors	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	MASLOV Mykola	\$106,000							US:1 Canada:1 EU:2
1891	Universal Measuring Unit for Application in Microwave Devices	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Kuzmychov Igor K.	\$96,190					<u> </u>		US:2 Canada:2 EU:2
1893	Scientific Basics of High Efficient Silicon Hetero Photo Cells Creation with Amorphous Crystalline Multi-Interface Structures for Solar Power	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Ayzatskii Mykola I.	\$126,885							US:1 Canada:1 EU:2
1896	Deep Modification of Constructive Materials by Ion Plasma Flow	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Karmazov Gennady N.	\$119,586							US:2 Canada:2 EU:2
1899	Neutron Source for Boron-Neutron Capture Therapy Based on the Linear Accelerator of the Lithium lons	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Mazalov Yurii P.	\$99,714							US:2 Canada:2 EU:2
1901	Study of the Mechanism of Precipitation of Electrons and Protons from the Earth's Inner Radiation Belt	Kharkiv State University; Kharkiv	Shmatko Yevgen S.								US:1 Canada:1 EU:2
1905	Combined Scintillation Detectors of Gamma Rays and Neutrons, and Dosimeters Based on Them	"Institute for Single Crystals" Scientific and Technological Concern; Kharkiv	Sysoeva Olena P.	\$147,720							US:1 Canada:1 EU:2
1911	Pyroelectric generator of X-rays	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Shchagin Olexander	\$96,760							US:1 Canada:1 EU:2
1915	Methodology for Pre-Reactor Testing of Structural Materials for Molten-Salt Nuclear Transmutation Facilities Using Simulating Irradiation by Electronics	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Reznichenko Eduard A.	\$140,000							US:1 Canada:1 EU:2
1918	Serviceability of New Structural Al-Cu-Li Alloys Under Extraordinary Conditions	Verkin Institute for Low Temperature Physics and Engineering; Kharkiv	Pokhyl Yurii O.	\$110,500							US:2 Canada:2 EU:2

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 Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

				Γ	USA	Canada	European	Other	Total	Total	1
#	Full Title	Leading Institution	Project Manager	Requested Funds	(US \$)	(US \$)	Union (EURO)	(US \$)	Funding (US \$)	Funding (US \$ + EURO)	Comments
1923	Production and Quasi-Steady Maintenance of High Density Plasmas by RF Methods in Stellarator Systems	Technology" National Scientific Center; Kharkiv	Volkov Eugene D.	\$235,264							US:2 Canada:2 EU:2 US:1
1925	Portable Spectrometer of Electronic-Spin- Resonance for Medical and Biological Investigations	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Yeremka Victor	\$114,345							Canada:1 EU:2 US:1
1926	Small-Size ESR-Spectrometer for Medical Investigations and Diagnostics	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Yeremka Victor D.	\$109,868							Canada:1 EU:2
1930	Reactive Functional Colloidal Carriers for Chemical. Biological and Microelectronic Technologies	"Lvivska Polytechnica" State University; Lviv	Zaichenko Olexander S.	\$170,000	\$153,000	\$17,000			\$170,000	\$ 170000	US:5 Canada:5 EU:2
1938	Self-Organization of Coherent Structures of Anomalous Transport in Electromagnetic Media	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Vodyanytskii Olexander A.	\$92,933							US:1 Canada:1 EU:2 US:2
1940	Remote Control of Sea Surface Using Coastal HF Radars	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Melyanovskii Pavlo A.	\$100,000							Canada:2 EU:2
1942	Klystron with Secondary-Emission Metallic Cathodes for Medical Electron Accelerators	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Zakutin Valerii V.	\$187,000							US:1 Canada:1 EU:2
1943	Microalloying Improvement of Operating Peculiarities of Welded Joints	Ukrainian Engineer-Pedagogical Academy; Kharkiv	Yefirnentko Mykola G.	\$59,510							US:2 Canada:2 EU:2
1947	Development of instrument and Procedures for Non-Destructive Quantitative Express Analysis of Chlorine, Sulfur, Phosphorus, and Silicon in Inorganic and Organic Substances	"Plus Radio" Scientific and Technical Center, Kyiv	Kiseliov Vladyslav	\$200,000			€200,000			€ 200000	US:1 Canada:2 EU:5
1948	Police Radar with Low Probability of Detection for Traffic Safety	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Lukin Kostiantyn A.	\$149,820							US:1 Canada:1 EU:2
1949	Development of Scientific and Technological Fundamentals for Elaboration and Application of Magnetic High-Speed Bearings	"Kharkiv Aviation Institute" State Space University; Kharkiv	Rashkovan Vasyl' M.	\$84,935							US:2 Canada:2 EU:2
1954	Microwave Method and Instrumentation for Precise Monitoring of Chornobyl's Sarcophagus	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Lukin Konstantin O.	\$198,000				<u> </u>			US:1 Canada:2 EU:1
1957	Investigation of Trichel Pulses in Non-Equilibrium Plasma under Atmospheric Pressure for Plasmo- Chemical Reactor Optimization	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Buts Olexander V.	\$70,000							US:1 Canada:1 EU:2
1959	Development of Converters of Energy of Various Types on the Basis of the Phenomenon of Parametrical Resonance	Pidgorny's Institute for Problems of Machine Building; Kharkiv	Shubenko Olexander L.	\$54,460							US:2 Canada:2 EU:2

^{1.} Review Incomplete

^{2.} Reviews Complete - No Willingness to Fund

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1962	Adjusting Influence of laser Radiation on Biological Properties	Kharkiv State University; Kharkiv	Svich V.	\$120,000					ļ		US:1 Canada:1 EU:2
1964	Development of Technologies for Super High Frequently Treatment of Medical Raw Materials	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Yefimov Boris	\$112,000							US:2 Canada:2 EU:2
1968	High-Current Electron Gun with Secondary Emission	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Cherenshchykov Sergii O.	\$73,900							US:1 Canada:1 EU:2
1973	Effects of Macromolecule Conformation on Dielectric Properties of Polymer Composites in the Microwave Frequency	Institute for Surface Chemistry; Kyiv	Dubrovina Lyubov V.	\$16,500							US:2 Canada:2 EU:2
1974	Computer-Aided Multi-Factor Analysis of Bio- Electrical Parameters of the Brain	National Technical University of Ukraine "Kyiv Polytechnical Institute"; Kyiv	Zhuikov Valery	\$161,083							US:1 Canada:1 EU:2
1975	The Conditions of Tungsten Substitution in Cast Hard Alloys by Transition Metals of IV-VI Groups	Frantsevich Institute for Problems of Materials Science; Kyiv	Velikanova Tamara	\$57,300							US:1 Canada:1 EU:2
2002	Laser Control System for Nuclear Power Engineering and Decommissioning of Chernobyl NPP	"Physical and Chemical Material Science" Science and Training Center at the Kyiv Taras Shevchenko University; Kyiv	Yarovoi Leonid	\$178,900							US:2 Canada:2 EU:2
2003	Development of Methods for the Intensive Heat Treatment of Iron-Nickel Alloys	Kurdyumov Institute for Metal Physics; Kyiv	Daniichenko Vitaly	\$68,520							US:2 Canada:2 EU:2
2005	Development of a Method, Software, and Hardware for Computer-Aided Monitoring of Radioactive Contamination of the Atmosphere	"Atom Complex Prylad" Scientific Industrial Company; Kyiv	Babenko Vitalii	\$100,000							US:2 Canada:2 EU:2
2007		Paton Electric Welding Institute; Kyiv	Lobanov Leonid	\$180,000							US:1 Canada:1 EU:2
2011	Development of the Physico-Chemical Basis for Refining, Obtaining and Investigation of the	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Lavrynenko Sergiy	\$160,281							US:1 Canada:1 EU:2
2013	The Elaboration of the Theoretical Foundations for Distance Monitoring of Natural Environment Based on the Geo Information Modeling		Suchov Volodymyr M.	\$115,500							US:1 Canada:1 EU:2
2023	Non-Submersible Water Pump for Deep Wells	"Pivdenne" State Design Bureau; Dnipropetrovsk	Buntchuk Yuriy	\$160,000							US:1 Canada:1 EU:2
2039	Development and Investigation of High-Stable He- Ne Laser Modules for Prediction Controlling and Measuring Systems	"Arsenal" Central Design Office; Kyiv	Klochko Olexandr I.	\$159,716							US:1 Canada:1 EU:1

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2042	Development of Combined Thin-Film Scintillators/Dosimeters on the Basis of Doped Oxide Crystals	Kyiv Taras Shevchenko University; Kyiv	Nedilko Sergii	\$150,300			€150,300			€ 150300	US:2 Canada:2 EU:5
2043	Development of the Electro-Refining of Platinum- Containing Secondary Raw Materials and Plating from Molten Electrolytes	Vernadskii Institute of General and Inorganic Chemistry; Kylv		\$174,000							US:1 Canada:1 EU:2 US:1
2045	Nonocomposite Conducting Polymers and Electrolytes for Lithium and Zink-air Batteries	Pisarzhevsky Institute of Physical Chemistry; Kyív	Pokhodenko Vitaly	\$168,000							Canada:1 EU:1
2053	Research and Development Methods for Preventing Ultra-Fine Radioactive Dust Formation in Handling Nuclear Materials	Kharkiv State University; Kharkiv	Vasylyev Victor	\$154,363							US:1 Canada:1 EU:2
2058	Development and Investigation of Magnesium- Aluminate Spinel Crystals for Devices of Energy Transformation	"Institute for Single Crystals" Scientific and Technological Concern; Kharkiv	Lytvynov Leonid	\$95,000	\$95,000				\$95,000	\$ 95000	US:5 Canada:2 EU:2
2063	Investigation and Development of an Acoustic Method for More Efficient Oil, Gas Condensate and Water Extraction	Kharkiv State University; Kharkiv	Pelikhaty Mykola								US:1 Canada:1 EU:2 US:1
2064	Development of the Methods for Forest Fire Prediction, Detection and Monitoring Based on Information from Aerospace Radiophysical Remote Sensing Facilities	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Komyak Volodymyr	\$185,554							Canada:1 EU:2
2065	Development and Fabrication of the Georadar Navigation System	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Masalov Sergii	\$102,434							US:1 Canada:1 EU:2
2071	Definition of Physical Parameters of Bio-Tissues at Ultrasonic Inspection of Mammary Gland with the Purpose of Expansion of Diagnostic Opportunities	"Scientific Research Institute of Radio Engineering Measurements" Joint Stock Company; Kharkiv	Leontyev Volodymyr	\$140,000							US:1 Canada:1 EU:2
2072	Microwave Reflectometry for Plasma Fluctuation Studies and Development of Methods and Apparatus for Its Application	Kharkiv State University; Kharkiv	Azarenkov Mykola	\$149,644							US:2 Canada:2 EU:2
2075	Applying of Protective, Strengthening and Biocompatible Coatings to Orthopedic Implants by Ion-Plasma Deposition Methods	"Kharkiv Aviation Institute" State Space University; Kharkiv	Rashkovan Vasyl' M.								US:2 Canada:2 EU:2
2079	Holographic Materials for Neutron and Optical Spectroscopy	Kyiv Taras Shevchenko University; Kyiv	Obukhovskii Vyacheslav	\$65,200							US:1 Canada:1 EU:2
2081	Thin Film 3-D Formation and Development of Devices and Technology for Creation of Functional Elements of Multi-Sectional Structure	Kharkiv State University; Kharkiv	Bobkov Valentyn	\$165,948							US:1 Canada:1 EU:2

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ċ	15 th Governing Board Meeting, December 12, 2002										
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2083	Mechanisms of the Ionization Increasing in Plasma Sources of Low Pressure	Kharkiv State University, Kharkiv	Azarenkov Mykola O.	\$83,050							US:1 Canada:1 EU:2
2088	Investigation of the Physical Properties of Water Electrolyte Systems and Creation of Under Satellite System for Control of Natural Media	Kharkiv State University; Kharkiv	Asheko Anatoliy	\$224,700							US:1 Canada:1 EU:1
2092	Development, Exploration and Implementation of a Device for Vacuum Tool Coating by a Melted Substance	Kharkiv Science and Research Institute of Machine-Building Technology; Kharkiv	Movshovych Isac Ya.	\$82,100							US:1 Canada:1 EU:2
2099	Development and Constructing of Tunable Lasers for Optical Range of Spectrum on the Basis of Solid-State Matrices Activated by Dyes	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Shevchenko Valerii V.	\$109,990							US:2 Canada:2 EU:2
2104	Development of the Theoretical Background for Thermal Defractrometry and Tomography and Their Use for Diagnostics of Nuclear Power Plant Equipment	Kharkiv State Technical University of Radioelectronics; Kharkiv	Storozhenko Volodymyr A.	\$198,400							US:1 Canada:1 EU:2
2108	Adiabatic Plasma Devices Controlled by Magnetic Field for Charged Particles Focusing	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Ivanov Borys I.	\$85,300							US:2 Canada:2 EU:2
2116	Precise Radar Measurements for Checking Condition and for Scheduled Preventive Maintenance of Water-Moderated Power Reactors	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Velichko Anatoliy	\$94,720			€94,720			€ 94720	US:2 Canada:2 EU:5
2119	Investigation and Development of New Metal Materials and Products from them for the Use in Medicine	"Kharkiv Institute of Physics and Technology" National Scientific Center: Kharkiv	Tikhnovskii Mykhailo A.	\$93,000							US:2 Canada:2 EU:2
2123	Electromagnetic Interaction Between the Lightest Nuclei and Hadrons	Kharkiv State University; Kharkiv	Trubnikov Sergiy	\$109,450							US:1 Canada:1 EU:2
2124	Development of Methods and Facilities for Instant Bio-Indication of a Person's Low-Dose Irradiation	"ISKRA" Science and Research Institute; Lugansk	Dolinsky Gennady	\$118,695							US:2 Canada:2 EU:2
2127	New Methods of Early Diagnostics of Pathologic Damages in Biological Objects and the Skin Using Circularly Polarized SHF Electromagnetic Wave (Using the Sadovsky Effect)	Kharkiv State University; Kharkiv	Azarenkov Mykola O.	\$159,599							US:1 Canada:1 EU:2
2128	Harmonic GaAs-Oscillators for the Short Wave Edge of mm-Wave Range	Kharkiv State University; Kharkiv	Prokhorov E.D.	\$77,900							US:1 Canada:1 EU:2
2129	Research and Development of Microhydroelectric Station Units for Low Head and Velocity	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Kovalevsky Mykhailo	\$108,000							US:1 Canada:1 EU:2

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Review Incomplete
 Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

#	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
2134	Fiber-Optical System for Control of Harmful Gases in the Atmosphere	"Metrology" The State Scientific and Industrial Association; Kharkiv	Machekhin Yurii	\$116,390				-			US:2 Canada:2 EU:2
2136	Realization of Ecological Mapping of Eastern Regions of Ukraine	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Levenets Volodymyr V.	\$109,605							US:2 Canada:2 EU:2
2138	All-Weather Condition Detector of Motion Based on Millimeter Wave Coherent Radar for Industrial Security	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Masalov Sergiy	\$125,235							US:1 Canada:1 EU:2
2139	Development of Mechanisms of Generation of Coherent X-Ray Radiation	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Buts Vyacheslav O.	\$143,077							US:2 Canada:2 EU:2
2142	Research of a Possibility of Hydrocarbon Vapor Detection in an Air with the Help of HCN Laser	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Kuleshov Yevgen	\$139,000							US:1 Canada:1 EU:2
2143	Transmutation Level Determination of Zirconium Alloys Doping Under Operation in Water-Water Reactors	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Shilayev Borys A.	\$40,000							US:2 Canada:2 EU:2
2145	Elaboration of the New Methods of the Treatment and Prevention of Traumatological Damages and Orthopedic Diseases Using Ozonizer on the Base of High-Pressure Glow Discharge	Sitenko Kharkiv Scientific and Research Institute of Orthopedics and Traumatology: Kharkiv	Radchenko Volodymyr O.	\$95,000							US:1 Canada:1 EU:2
2146	Methods for Desinfection of Poultry Farming Forage and Production by Ozone-Enriched Air	Institute of Experimental and Clinical Veterinary Medicine; Kharkiv	Malinin Oleg O.	\$97,500							US:1 Canada:1 EU:2
2148	Research and Development of Increased Energy Saving Methods for Glass Making	"Kharkiv institute of Physics and Technology" National Scientific Center: Kharkiv	Shirokov Borys	\$140,000							US:2 Canada:2 EU:2
2150	The Study of Accuracy Time Scales Comparison Using Various Methods	"Metrology" The State Scientific and Industrial Association; Kharkiv	Solovyov Valentyn S.	\$121,740							US:2 Canada:2 EU:2
2152	Measurement of the Parameters of the Laser Radiation by Bolometers from Thin Wire	Kharkiv State University; Kharkiv	Kuzmichov Volodymyr M.	\$58,793							US:2 Canada:2 EU:2
2155	The Complex Study of the Mechanism of Process of Middle Energies Ions Interaction with Solids and the Development on This Base the Quantitative Methods of Solid Diagnostics with Atomic	Kharkiv State University; Kharkiv	Koval Adolf G.	\$200,000			€200,000			€ 200000	US:2 Canada:2 EU:5
2156	Resolutions Magneto Induction Effect of Extensive Air Showers as a New Detection Method	Kharkiv State University; Kharkiv	Shmatko Yevgen S.	\$94,000							US:1 Canada:1 EU:2

Review Incomplete
 Reviews Complete - No Willingness to Fund
 Rewrite/Resubmit

^{4.} Other - See Comments

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#	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
2157	Development of Experimental Equipment for Dehydratation of Colloidal Mixtures by Means of Their Artificial Freezing and Subsequent Defrosting	"Kharkiv Aviation Institute" State Space University; Kharkiv	Petukhov Ilia I.	\$94,000							US:1 Canada:1 EU:2
2162	The Elaboration of Highly Effective Dispersing Elements for the Wavelength Range of 0.5 to 1.2 nm Based on Fullerene Films	Kharkiv State Polytechnical University; Kharkiv	Mikhailov Igor	\$115,000							US:2 Canada:2 EU:2
2167	The Regional System for the High Level Accuracy Satellite Geodetic Definitions	"Navigation and Geodetic Center" Private Company; Kharkiv	Gorb Olexander I.	\$171,400	\$171,400				\$171,400	\$ 171400	US:5 Canada:2 EU:2
2174	Production of Casting Out of Deformable Aluminum Alloys under Electromagnetic Pressure with Non-Solidifying Gating System	Physico-Technological Institute of Metals and Alloys; Kyiv	Dubodelov Victor	\$121,000							US:1 Canada:1 EU:2
2175	Monitoring System for Ecologically Threaten+M76ing Hydro-Constructions	"Ukrinformzakhist" State Science- and Production Center of Information Technical Protection; Kyiv	Kovbasa Olexii P.	\$162,500							US:2 Canada:2 EU:2
2190	Development of Numerical Methods and Codes for Electromagnetic Field Modelling in Hot Magnetized Plasmas	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Moiseyenko Volodymyr	\$58,960							US:2 Canada:2 EU:2
2191	Study of Localized Eigenmodes and Continuum Spectrum in Toroidal Fusion Devices	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Moiseyenko Volodymyr	\$58,960							US:2 Canada:2 EU:2
2206	Enhancing Serviceability of Welded Joints of Dissimilar Metals by Optimizing Their Design and Technological Parameters	Institute for Problems of Strength; Kyiv	Lebedev Anatolii A.	\$110,000							US:1 Canada:1 EU:2
2207	Development of Physical-Chemical and Thermal- Physics Base for Production of Birnetallic/Multilayer Castings of High Durability	Physico-Technological Institute of Metals and Alloys; Kyiv	Kostenko Georgii	\$151,176							US:1 Canada:1 EU:2
2219	System for Personal Identification by Voice and Sound Recording	Kyiv Scientific Research Institute of Forensic Examinations; Kyiv	Novoselskyy Olexander	\$99,530							US:1 Canada:1 EU:2
2224	Synthesis of the Surface Layer of Superhard Powder Material to Produce Ceramics and Composite Materials	"Arvina" Scientific and Production Center: Kyiv	Vesna Valery	\$195,000							US:1 Canada:1 EU:2
2231	Improvement of Wear Resistance of Equipment and its Renovation under Conditions of Non- Interruptible Operation	"Pivdenne" State Design Bureau; Dnipropetrovsk	Ivanov Yurii O.	\$90,672							US:2 Canada:2 EU:2
2239	Sound Amplification by Stimulated Emission of Radiation in liquid crystal systems	Institute of Physics; Kyiv	Lev Bogdan	\$93,860							US:1 Canada:1 EU:2
2242	New Methods and Tools of Image Processing for Telemedicine Technologies	"Intermag" Science and Production Firm; Kylv	Novoselets Mykhailo	\$177,600							US:1 Canada:1 EU:2

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Review Incomplete
 Reviews Complete - No Willingness to Fund
 Rewrite/Resubmit

^{4.} Other - See Comments

#	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
2245	Formation of an Automatic Informative System for Diagnostics and Treatment of Diseases of the Gastrointestinal Tract	"SATURN-MICRO" Research and Production Enterprise; Kyiv	Kabanov Olexander	\$90,700				·			Canada:2 EU:2 US:2
2249	Multifunctional Eye Investigation	Institute of Biomedical Engineering; Kyiv	Molebny Vasyl' V.	\$160,075						: 	Canada:2 EU:2
2251	Quasi-Continuous Monitoring of Leakage in Steam Generators at NPPs	"ATOMICS" Ltd: Kyiv	Pshenychnyj Volodymyr	\$150,000							US:1 Canada:1 EU:2
2253	Information Technology and System for Preservation of Cultural Possessions of Ukraine	State Scientific and Research Institute of Information Infrastructure; Lviv	Opotiak Yu.V.	\$76,149				_			US:1 Canada:1 EU:2
2254	Elaboration of High-Effective Computer Technology of Tutoring Holy Bible	State Scientific and Research Institute of Information Infrastructure; Lviv	Hrytsyk V.V.	\$98,462				· · · · · · · · · · · · · · · · · · ·			US:2 Canada:2 EU:2
2255	Information System of Recreation Resources and Technologies "Carpathian Healthy Springs"	State Scientific and Research Institute of Information Infrastructure; Lviv	Stekh Stefania	\$76,137							US:1 Canada:1 EU:2
2259	Nonlinear Generation of Second Harmonics of Laser Irradiation Using Passive Resonator	"Lvivska Polytechnica" State University: Lviv	Bobitskii Yaroslav V.	\$159,729							US:1 Canada:1 EU:2
2261	Creation of Information System and Multimedia Catalogue "Ukrainian Icon XIII-XVIII c."	"Kharkiv Institute of Physics and Technology" National Scientific Center, Kharkiv	Cherenshchykov Sergii O.	\$119,427							US:1 Canada:1 EU:2
2262	Elaborating a Method of Measuring the Ceramics Dielectric Constant in Vicinity to the Temperature of Vaporization and Constructing the Corresponding Device	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Antipov Vyacheslav S.	\$93,170							US:2 Canada:2 EU:2
2264	Development of the Basis Elements and Principles of Construction of Radars for the Guaranteed Increase of a Safety Level of Automobile Traffic in Complicated Conditions	and Electronics; Kharkiv	Lutsenko Vladyslav I.	\$84,000							US:1 Canada:1 EU:2
2265	Study of a Nature of Ion-Induced Phase Transitions in Silver by Bombardment with Chemically Active Elements: O+, N+, D+, (H+)	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Morożov Ołexander M.	\$59,796				<u> </u>			US:2 Canada:2 EU:2
2272	The High-Power Compact Linear Accelerator with an Alternating-Phase Focusing	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Khyzhniak Mykola A.	\$200,000							US:2 Canada:2 EU:2
2273	Effect of Low Radiation Doses on Live Cell Properties	"Kharkiv Institute of Physics and Technology" National Scientific Center: Kharkiv	Khyzhniak Mykola A.	\$180,000							US:1 Canada:1 EU:2
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; Kharkiv	Komienko Yurii V.	\$98,445				· · · · · · · · · · · · · · · · · · ·			US:1 Canada:1 EU:2

Review Incomplete
 Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

15th Governing Board Meeting, December 12, 2002

#	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
2280	Epiphysis-Gonad System Reactivity to Electromagnetic Field Effects	Ukrainian Pharmacotheraphy of Endocrine Diseases Research Institute; Kharkiv	Gladkova Alla I.	\$168,522							Canada:1 EU:2 US:1
2282	VHF Radiating Systems and Devices of Arbitrary and Directed Polarizations for Radioelectronic Systems	Kharkiv State University; Kharkiv	Shmat'ko Olexander	\$98,076							Canada:1 EU:2
2283	Elaboration of Methods and Equipment for Complex Influence of Electrical Fields, Electromagnetic Radiations and Ozone on the Microorganisms for Disinfection of Liquids	Kharkiv State University; Kharkiv	Katrich Victor O.	\$98,000							US:2 Canada:2 EU:2
2284	The All-Purpose, High-Resolution Device for Sound Velocity and Attenuation Measurements in the Meter Wave Band	Verkin Institute for Low Temperature Physics and Engineering; Kharkiv	Fil Vyacheslav	\$81,300							US:2 Canada:2 EU:2 US:2
2285	Effective Electro-Chemiluminescent Materials Development for Use in the Newest Techniques of Homo-, Heterogeneous and Bio-Electro-Chemi- Luminescent Analysis	Radioelectronics; Kharkiv	Bykh Anatolii	\$167,725							Canada:2 EU:2
2291	Improvement of Surface-Volumetric Materials Properties Complex of Nuclear Reactors by Impulses of Super-Power Radiation	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Yuferov Volodymyr B.	\$145,341							Canada:2 EU:2
2294	Method of Analysis In Vitro of Molecular Mechanisms of Action of Drugs for Their Designing, Selection of Doses and Combinations	Problem Scientific and Research Laboratory of Molecular Mechanisms; Kharkiv	Konev Fedir A.	\$154,374							US:1 Canada:1 EU:2
2295	Apparatus and Technique for the Early Diagnostics, Therapy, and Preventive Maintenance of Cardiovascular Diseases	Problem Scientific and Research Laboratory of Molecular Mechanisms; Kharkiv	Kovaleva Olga	\$152,405							US:1 Canada:1 EU:2
2296	Creation of the Equipment Complex for the Analysis of Hydration Parameters of Bioobjects and Their Water Component	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Schegoleva T.	\$102,174				·			US:1 Canada:1 EU:2
2297	Development of Semen Quality Control Non- Destructive Methods	Problem Scientific and Research Laboratory of Molecular Mechanisms; Kharkiv	Kolesnikov Volodymyr	\$161,396							US:2 Canada:2 EU:2
2298	Express-Testing System for Cereal Culture Maturity in the Harvest Period for Ukraine Farms	Problem Scientific and Research Laboratory of Molecular Mechanisms; Kharkiv	Kolesnikov Volodymyr G.	\$135,872							US:1 Canada:1 EU:2
2299	Prediction of Complications of Acute Myocardial Infarction	Problem Scientific and Research Laboratory of Molecular Mechanisms; Kharkiv	Vasilieva Olena	\$70,769							US:2 Canada:2 EU:2
2300	Origin, Preparation and Diagnostic Capacity of Natural Pulse Electromagnetic Radiation from the Earth Interior as a Precursor and an Indicator of Geodynamic Processes	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Uvarov Volodymyr M.	\$142,380						·	US:1 Canada:1 EU:2

^{1.} Review Incomplete

Reviews Complete - No Willingness to Fund
 Rewrite/Resubmit

^{4.} Other - See Comments

15th Governing Board Meeting, December 12, 2002

#	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
2301	Development and Investigation of the Physical Characteristics of Bulk and Long-Dimensional Products from High-Temperature Superconductors	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Petrusenko Yurii	\$123,400							US:2 Canada:2 EU:2
2302		Kharkiv State Technical University of Radioelectronics; Kharkiv	Presnyakov Igor								US:2 Canada:2 EU:2
2303	Plasma Source of Charge Particles on Surface Waves in a Magnetic Field	Kharkiv State University; Kharkiv	Azarenkov Mykola	\$154,352							US:2 Canada:2 EU:2
2305		Usikovs Institute of Radiophysics and Electronics; Kharkiv	Yefimov Borys P.	\$79,900							US:1 Canada:1 EU:2
2306	Increase the Information and Expansion of Functionality of X-Ray Diagnostic and Defectoscopic Apparatus	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Yefimov Borys P.	\$135,002							US:2 Canada:2 EU:2
2307	Methods and Equipment Development for	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Yefimov Boris	\$92,550							US:2 Canada:2 EU:2
2314	Preparations and Neutron Irradiator for Complex of Boron-Neutron-Captured Therapy of Cancer	"Plasmed" Kharkiv State Scientific and Technological Enterprise for Producing Pharmaceutical Equipment; Kharkiv	Kirjukhin Mykola M.	\$178,901							US:2 Canada:2 EU:2
2316	Producing of Artificial Energy Carriers by Means of Nonequilibrium Plasma Chemistry	"Plasmed" Kharkiv State Scientific and Technological Enterprise for Producing Pharmaceutical Equipment; Kharkiv	Zabashta Lidia O.	\$149,990							US:2 Canada:2 EU:2
2318	Work Out and Investigation of the Fluoridical	"Kharkiv Institute of Physics and Technology" National Scientific Center; Kharkiv	Shyrokov Borys	\$160,000							US:2 Canada:2 EU:2
2320	Microwave-Band Methods for Ecologically Safe Biotechnology	Kharkiv State University; Kharkiv	Pereverzeva Valentyna F.	\$115,159							US:1 Canada:1 EU:2
2321	New Technologies for Strengthening of Metal Parts Based on High-Energy Magnetic - Impulse Processing	Kharkiv State Polytechnical University; Kharkiv	Khimenko Lev	\$127,540							US:1 Canada:1 EU:2
2322	New Type of Foil and Coating Composite for Cryogenic Technique	Kharkiv State Polytechnical University; Kharkiv	Ilinskii Olexander I.	\$164,335							US:1 Canada:1 EU:2
2324	Low-Cost, Inertial Measurement Unit of a Carousel Type for a Commercial Application	"Arsenal" Plant; Kyiv	Chikovani Valerii V.	\$149,000							US:2 Canada:2 EU:2
2328	Optical and Electronic Methods and Equipment for Contactless Non-Destructive Monitoring of Large- Sized Structures	Kyiv Taras Shevchenko University; Kyiv	Udalov Evgenii P.	\$160,000							US:2 Canada:2 EU:2

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^{4.} Other - See Comments

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#	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
2329	Control Over Field of Tempers in Big-Volume Structures	"Pivdenne" State Design Bureau; Dnipropetrovsk	Pakhomov Sergii M.	\$90,672							US:1 Canada:1 EU:2
2330	Processing of Ferrous Metal Ore and Control of the Product Properties	"Pivdenne" State Design Bureau; Dnipropetrovsk	Tcherykov Volodymyr	\$106,260							US:1 Canada:1 EU:2
2333	Simulation of Temperature Conditions in Highly Thermo-Loaded FIN-WALL Systems	"Kyiv Institute of Automation" Scientific and Production Corporation; Kyiv	Marinenko Volodymyr	\$131,000							US:1 Canada:1 EU:2
2334	Optical and Electronic Weed Identification for Local Herbicide Application Systems	"RITM" Interbranch Research Institute of Mechanics Problems at the Technical University of Ukraine "Kiev Politecnical Institute"; Kyiv	Pavlyuk Volodymyr	\$56,430							US:2 Canada:2 EU:2
2337	A Mobile System of Electromagnetic Phase Location for Oil and Gas Pipelines	Glushkov institute of Cybernetics; Kyiv	Bekh Olexander	\$109,200							US:1 Canada:1 EU:2
2339	Technology for Raw Materials Utilization During Production of Porcelain, Glass and Fireproof Materials	Institute of Pulse Research and Engineering; Mykolaiv	Rizun Anatoliy	\$41,899							US:2 Canada:2 EU:2
2343	Intratomic Correlations, Electronic Structure and Structural Phase Transformations in Alloys Excosed to Radiation	Kyiv Taras Shevchenko University; Kyiv	Kulish Mykola	\$191,750							US:1 Canada:1 EU:2 US:1
2352	Working Out of the Lubrication Material Obtaining Technology of New Generation on the Base of Polytetrafluorethylene	"Southern Machine-Building Plant" Production Association: Dnipropetrovsk	Ranskii Anatolii P.	\$78,469							Canada:1 EU:2 US:2
2353	Obtaining Thermal Coatings for Serving in Extreme Conditions	Frantsevich Institute for Problems of Materials Science; Kyiv	Rudoy Anatolii P.	\$110,124							Canada:2 EU:2
2357	Complex Compounds of Transitional Metals with Specific Bioactivity	"Southern Machine-Building Plant" Production Association; Dnipropetrovsk	Shtemenko Olexander V.	\$64,065	-						US:2 Canada:2 EU:2
2358	Special Plastic Lubricants Production Technology Elaboration	Ukrainian State Chemical and Technological University; Dnipropetrovsk	Ransky Anatoliy	\$64,101							US:1 Canada:1 EU:2
2359	Elaboration of Composition Materials Based on Aromatic Polyamide Phenilon for Tribotechnical Applications	Ukrainian State Chemical and Technological University; Onipropetrovsk	Sytar Volodymyr I.	\$92,080							US:1 Canada:1 EU:2
2368	Synergetic Factors Interaction in Technological Process with Phase Transformations	National Technical University of Ukraine "Kyiv Polytechnical Institute"; Kyiv	Zavorotnyi Victor	\$61,080							US:1 Canada:1 EU:2
2373	Development of Production Process of Articulated Square Trusses from a Composite Material	East Ukrainian State University; Lugansk	Rach Valentyn	\$51,645							US:1 Canada:1 EU:2

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Review Incomplete
 Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

#	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
2375	Development and Fabrication of Experimental Samples of Thermo-Visual Devices on the Base of Pyroelectric Materials		Bundza Bogdan	\$196,055							US:1 Canada:1 EU:2 US:1
2376	Research of Extra-Low Frequency Perturbations of Atmospheric Pressure for Diagnostics and Correction of Meteorological Dependency	Kyiv Taras Shevchenko University; K yiv	Gorgo Yurii P.	\$138,690							Canada:1 EU:2
2377	Studying the Properties of a Fusible Hydrogen Compound of Boron and Materials on Its Base	Frantsevich Institute for Problems of Materials Science; Kyiv	Morozov Igor A.	\$97,794							US:2 Canada:2 EU:2
2387	Catalysts for Deep Hydro-Desulfurization of Motor Fuel	Institute for Surface Chemistry; Kyiv	Pluto Yuriy	\$114,882							US:2 Canada:2 EU:2
2391	Improvement of Monitoring Radioactive Nuclides Resulted from Radiation Accident	Chomobyl Center on Nuclear Safety, Radioactive Waste and Radioecology; Kyiv	Ogorodnyk Stanislav S.	\$127,500	-						US:1 Canada:1 EU:2
2392	Improvement of Technologies for the Equipment, Facilities and Territory Decontamination	Chomobyl Center on Nuclear Safety, Radioactive Waste and Radioecology; Kyiv	Ogorodnyk Stanislav S.	\$97,800							US:1 Canada:1 EU:2
2393	Improvement of the Remote Technology for the Investigation of Dangerous Sites	Chornobyl Center on Nuclear Safety, Radioactive Waste and Radioecology; Kyiv	Ogorodnyk Stanislav S.	\$91,700							US:1 Canada:1 EU:2
2394	Improvement of Informational Monitoring of Key Events in Ukraine's Nuclear Industry	Radioactive Waste and Radioecology; Kyiv		\$89,000							US:1 Canada:1 EU:2
2395	Means of Prophylaxis and Correction of the Health Impaired as a Result of Catastrophes	Radioactive Waste and Radioecology; Kyiv								:	US:1 Canada:1 EU:2
2396	Development of Fundamentals and Technologies for Deformation-Free Welding of Steel and Aluminum Alloys Panels and Shells	Paton Electric Welding Institute; Kyiv	Sanchenko Vitalii	\$190,976							US:2 Canada:2 EU:2
2411	Development of Dye-Doped Polymer Systems as the Standards for Time-Resolved Spectroscopy	Institute of Physics; Kylv	Bondar Mykhailo	\$190,000							US:1 Canada:1 EU:2
2415	Coherent and Vortex Structures in Dynamics Systems: Simulation, Identification and Control	Scientific Foundation of Scientists and Specialists of Molecular Cybernetics and Informatics; Kyiv	Samoilenko Yuriy	\$70,000					:		US:1 Canada:1 EU:2
2420	Comprehensive Investigations of the Processes and Consequences of the Charged Particles Beams - Material Interactions	Kyiv Taras Shevchenko University; Kyiv	Dotsenko Ivan	\$150,000							US:1 Canada:1 EU:2
2421	Development of Facilities for Non-invasive Measurement of Iron in the Human Body (Magnetic Biopsy)	Glushkov Institute of Cybernetics; Kyiv	Sosnytskyy Volodymyr	\$198,430							US:2 Canada:2 EU:2

^{1.} Review Incomplete

Reviews Complete - No Willingness to Fund
 Rewrite/Resubmit

^{4.} Other - See Comments
5. Approved with Funding

#	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
2424	Study of the Chemical Interaction of Helium and an Investigation of the Properties of the Derived Compounds	Frantsevich Institute for Problems of Materials Science; Kyiv	Morozova Raisa	\$126,754							US:1 Canada:1 EU:2
2430	Complex Opto-Electronic Analyzer for Hemodynamic Parameters and Vascular Tone	Research Technological Lazer Center; Kyiv	Trushina Valentina	\$47,240							US:2 Canada:2 EU:2
2434	Technology Development of Reversible High- Capacity Hydrogenation of Fullerene-Similar Materials	Frantsevich Institute for Problems of Materials Science; Kyiv	Schur Dmytro	\$166,765							US:1 Canada:1 EU:2
2444	Development of Two-Dimensional Photonic Structures Based on Macroporous Silicon	Institute of Semiconductor Physics; Kyiv	Karachevtseva Lyudmyla A.	\$144,000	- \$64,800		€64,800			€ 64800	US:4 Canada:2 EU:5,4
2445	Intracavity KTiOP4 electro-optic Q-switch- frequency doubler for Nd3+ -doped laser	Institute of Semiconductor Physics; Kyiv	Oryeshko Eugene	\$148,500							US:1 Canada:1 EU:2
2446	Development of Pulsed Technologies for Dismantling Metal Structures at Nuclear Power Installations and under Extreme Conditions	Paton Electric Welding Institute; Kyiv	Palamarchuk Borys I.	\$170,610							US:2 Canada:2 EU:2
2447	Magneto-Resistive Sensor Based on Laser- Annealing Amorphous Materials	Institute for Information Recording Problems; Kyiv	Kravets Vasyl	\$170,000							US:2 Canada:2 EU:2
2448	Electronic Control Systems for Plant Equipment for Heat-Carrier Production	Daughter Enterprise "Orizon- automation" of State Plant "Orizon- instrument": Smila	Zubkov Pavlo M.	\$191,641							US:1 Canada:1 EU:2
2449	Development of Prototypes for a New Class of Transducers for Motion Measurement	"ELECTROPRYLAD" Scientific and Industrial Complex; Kyiv	Yatsko Lasio D.	\$198,000							US:1 Canada:1 EU:2
2450	Investigation of Interaction of Fast Neutrons and Gamma-Quanta with Transuranium Elements and Construction Materials	Kyiv Taras Shevchenko University; Kyiv	Primenko Georgii I.	\$94,200							US:2 Canada:2 EU:2
2454	Development of Methods for Synthesis and Upgrading of Colored Stones	State Scientific Center of Environmental Radiogeochemistry; Kyiv	Komov Igor	\$197,205							US:1 Canada:1 EU:2
2463	Computing Technology Development Using the Principles of Nonlinear Dynamics of Oscillatory and Wave Processes in Physical and Biological Systems	Scientific Foundation of Scientists and Specialists of Molecular Cybernetics and Informatics; Kyiv	Samoilenko Yurii I.	\$70,000							US:2 Canada:2 EU:2
2466	A Remote Control System for inspection of the State of Hot under Reactor	Special Design Bureau of Television Systems; Lviv	Vival Ivan	\$58,300							US:2 Canada:2 EU:2
2467	Regular and Chaotic Conversion of Electromagnetic and Acoustic Waves in Heterostructures with Quantum Well and in Magnetic Crystals	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Korolyuk Alexii P.	\$157,149							US:2 Canada:2 EU:2

^{1.} Review Incomplete

^{2.} Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

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#	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
2469	Formation and Investigation of the Solid Coatings from Aluminides with High Hardness and Fracture Toughness Characteristics	National Technical University of Ukraine "Kyiv Polytechnical Institute", Kyiv	Sidorenko Sergii I.	\$134,530		\$13,453	€121,077		\$13,453	\$ 13453 € 121077	US:2 Canada:5 EU:5
2476	Development of Semipermeable Membranes with	National University of "Kyiv-Mohyla Academy"; Kyiv	Nigmatulin Renat R.	\$186,450		\$24,645	€167,805		\$24,645	\$ 24645 € 167805	US:1 Canada:5 EU:5
2477	Non-Linear Properties of Structurally Modified Semiconductors in Millimeter and Optical Range	Usikovs Institute of Radiophysics and Electronics; Kharkiv	Popenko Nina O.	\$186,000							US:2 Canada:2 EU:2
2478	Electronic Weight Measuring Equipment	Daughter Enterprise "Orizon- automation" of State Plant "Orizon- instrument"; Smila	Kohanenko Volodymyr	\$221,475							US:1 Canada:1 EU:2
2479	Long Life Power Supply System for Space Applications	"Hartron" Research and Production Association, Joint Stock Company, Kharkiv State Technical University of Radio Electronics; Zaporizhia	Bobkov Valentyn	\$145,000							US:1 Canada:1 EU:2
2484	Study of Regularities and Development of Technologies of Gold and Silver Recovery from Gold-Containing Ores	"Pridneprovsky Hydrometallurgical Plant" State Enterprise; Dnipropetrovsk	Korovin Yuriy	\$153,445							US:1 Canada:1 EU:2
2487	Complex Treatment of Metallurgical Wastes with Scandium Removal	State Scientific Research and Development Institute of Titanium; Zaporizhia	Komarov Olexij	\$125,860							US:2 Canada:2 EU:1
2489	The Two-Nozzle Injection for the Water Cooling Towers of the Splashing Type	"Dnepropetrovsk plant Temp" Join Stock Company; Dnipropetrovsk	Gavrish Felix	\$148,600							US:1 Canada:1 EU:2
2511	Production Technology of High-Purity Silicon Monc Crystals for Photo-Receivers and Ionize Radiation Detectors	State Scientific Research and Development Institute of Titanium; Zaporizhia	Trubitsyn Yurii V.	\$179,000		<u> </u>					US:2 Canada:2 EU:2
2517	Development of Voice-Control Plasma Surgical Apparatus	"Pivdenne" State Design Bureau; Dnipropetrovsk	Dranovsky Volodymyr	\$124,344							US:1 Canada:1 EU:2
2536	Development of Combined Extruder with Increased Operating Performances	"Pivdenne" State Design Bureau; Dnipropetrovsk	Petushenko Yurii G.	\$52,340							US:2 Canada:2 EU:2
2542	The Autonomous Plant for Condensation of Raw Oil Steam	"Pivdenne" State Design Bureau; Dnipropetrovsk	Oglikh Valery	\$98,450							US:2 Canada:2 EU:2
2547	Instrument for Controlling the Quality of Non- Ferrous Metals and Separation of Their Alloys	State Scientific Research and Development Institute of Titanium; Zaporizhia	Brynza Olexandr	\$57,400						·	US:1 Canada:1 EU:2
2557	Elaboration and Device Complex Trail for Pipe Production of Raised Quality	Novomoskovsk Pipes Plant; Novomoskovsk	Vdovin Valentyn	\$119,200							US:1 Canada:1 EU:2

^{1.} Review Incomplete

^{2.} Reviews Complete - No Willingness to Fund

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#	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
2564	Production of the High Purity Aluminum Nitride and Multilevel Integrated-Circuits Substrate on Based II	"Reactivelectron" Scientific and Technologic Center; Donetsk	Policshuk Volodymyr	\$90,000							US:1 Canada:1 EU:2
2566	Development of the Wide-Range Radio-Absorbing Magnetic Materials for High Effective Absorbents of Electromagnetic Waves	"Reactivelectron" Scientific and Technologic Center; Donetsk	Klochay I.	\$107,295			<u>.</u>				US:2 Canada:2 EU:2
2574	Technology of Synthesis of Super Hard Materials	National Mining Academy of Ukraine: Dnipropetrovsk	Davydenko Olexandr	\$138,000							US:2 Canada:2 EU:2
2575	Technology of Deriving of Constructional Metal Materials with a High Level of Dispersion of Energy	National Mining Academy of Ukraine; Onipropetrovsk	Bezsonov Yurii	\$138,000							US:2 Canada:2 EU:2
2581	Hardware-Software Monitoring Equipment Based on Spectrometer of Photon Emitted by Sputtered Particles	Donetsk State University; Donetsk	Melnichuk Igor	\$135,511							US:2 Canada:2 EU:2
2582	Pulsed Electromagnetic Field for Controlling Material Structure and Properties	Galkin Donetsk Institute for Physics and Technology; Donetsk	Datsko Oleg	\$71,729							US:1 Canada:1 EU:2
2588	Combined Optical/Digital Security Devices with Magnetic and Luminescent Marking Elements	Kyiv Taras Shevchenko University: Kyiv	Girnyk Volodymyr	\$128,110							US:1 Canada:1 EU:2
2593	A Remote Control System for Checking Through Holes and/or Wells the State of Radiation Hazard Premises within the Object "Shelter"	Special Design Bureau of Television Systems; Lviv	Voytovych Volodymyr	\$76,340							US:1 Canada:1 EU:2
2594	A Remote Control System for Checking the State of Exhausted Heat Releasing Rods (HRR) Before Their Burial	Special Design Bureau of Television Systems; Lviv	Basyuk Mykola	\$92,455							US:1 Canada:1 EU:2
2597	Reduction of Military Engineering: Use for Civil Purposes of Heavy Mechanized Bridges	"UkrNDIproektstalkonstruktsiya", Ukrainian Research and Design Institute of the steel constructions, Joint Stock Company; Kyiv	Gordeyev Vadym M.	\$92,620							US:1 Canada:1 EU:1
2598	Photoluminescence and Photoelectrical Biomedical Diagnostics Based on the Semiconductor Porous Layers	Palladin Institute of Biochemistry; Kyiv	Kurskiy Mykhailo	\$131,935							US:2 Canada:2 EU:2
2599	Pilot Solar Heating System with Discrete Orientation	"Ukrgelioprom" Scientific and Production Enterprise; Kyiv	Smirnov S.	\$53,680							US:1 Canada:1 EU:2
2600	Development of Tire-Cutting Machine	"Pivdenne" State Design Bureau; Dnipropetrovsk	Legeza Volodymyr S.	\$201,000							US:2 Canada:2 EU:2

^{1.} Review Incomplete

^{2.} Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

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2601	Development of Coatings for Implantates with Specified Biomedical Properties	"Pivdenne" State Design Bureau; Dnipropetrovsk	Tarasov Yuriy	\$248,000							US:2 Canada:2 EU:2
2603	The Development of New Magnetic Perovskite- Like Semiconductors with Huge Magnetoresistance for Highly-Sensitive Magnetoresistive Elements on Their Basis	Frantsevich Institute for Problems of Materials Science; Kylv	Lashkarev Georgiy	\$156,036							US:1 Canada:1 EU:2
2606	Techniques of Diamond Micro Turning of Optical Parts	"Arsenal" Central Design Office; Kyiv	Perekhod'ko Mykola	\$280,000							US:2 Canada:2 EU:2
2607	Development of Seismic Safety Methods for Carrying out Blasting Operations	"Ukrtekhnobezpeka" Foundation; Kyiv	Boiko Victor	\$99,951							US:2 Canada:2 EU:2
2608	New Aspects in Gravimetry Related to Deposit Exploration	Subbotin Institute of Geophysics; Kyiv	Bulah E.G.	\$97,700							US:2 Canada:2 EU:2
2610	Analysis of Factors Causing Orbital Debris and Development of Proposals on Its Minimization or Formation Prevention	"Pivdenne" State Design Bureau; Dnipropetrovsk	Lompaniets Eduard P.	\$80,017							US:2 Canada:2 EU:1
2620	Elaboration and Study of Techniques for Improvement of Photorefractive Properties of CdTe and Solid Solutions on Its Basis	Institute of Physics; Kyiv	Borshch Anatoli	\$160,000							US:1 Canada:1 EU:2
2623	Diamond-like Films for Precision Sensors in Microelectronics	Mechnikov Odessa State University: Odessa	Mokritskii Vadym A.	\$78,200							US:2 Canada:2 EU:2
2624	Investigations of Basic Compressibility Effects in Sub-, Trans-, Supersonic Flows in Water Free Surfaces	Institute of Hydromechanics; Kyiv	Selezov Igor	\$34,000							US:1 Canada:1 EU:2
2625	Development of a Metal-Fueled Electric Power Plant	National Technical University of Ukraine "Kyiv Polytechnical Institute"; Kyiv	Murashov Olexander	\$99,600							US:1 Canada:1 EU:2
2626	Diffratopography	Kurdyumov Institute for Metal Physics; Kyiv	Molodkin Vadym	\$178,600							US:1 Canada:1 EU:2
2627	Monograph "Statistical Theory of Radiation Scattering by Crystals with Defects"	Kurdyumov Institute for Metal Physics; Kyiv	Molodkin Vadym B.	\$49,500							US:1 Canada:1 EU:2
2629	Electromagnetic Rheology Methods for Stability Determination of Electrical Equipment under Extreme Loads	Frantsevich Institute for Problems of Materials Science; Kyiv	Raychenko Olexander	\$91,780						·.	US:2 Canada:2 EU:2
2630 (R)	Ecological and Chemical Studies for Monitoring Military Installations for Dismantlement	National University of "Kyiv-Mohyla Academy"; Kyiv	Bryk Mykhailo	\$175,245							US:1 Canada:1 EU:2

Review Incomplete
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^{3.} Rewrite/Resubmit

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2634	Photochemical Technologies for the Destruction of Highly Toxic Organic Compounds	Institute for Sorption and Endoecology Problems, Kyiv	Kapinus Eugene	\$180,000							US:2 Canada:2 EU:2
2638	Development and Investigation of Multi-Element Radiation Detectors of a New Generation and Equipment Based on Them	"Institute for Nuclear Research" Scientific Center; Kyiv		\$185,000							US:2 Canada:2 EU:2
2639	Development of new compositions of shape- memory alloys for medical applications	Paton Electric Welding Institute; Kyiv	Kaleko Davyd	\$193,526							US:1 Canada:1 EU:2
2640	Mass Spectrometry In Agrobiology	Institute for Applied Physics; Surny	Shkurdoda Valery	\$100,000							US:1 Canada:1 EU:2
2644	Development of Highly Effective Technology to Produce Particular Heat Resistant Elastic Elements	Kurdyumov Institute for Metal Physics; Kyiv	Efirnov Olexander I.	\$135,300							US:2 Canada:2 EU:2
2645	Theoretical and Experimental Basis of Activation of Arc Processes and their Application for the Development of Technologies for Welding and Local Heat treatment of Steels of General Purpose		Savytskii Mykhailo M.	\$104,368							US:2 Canada:2 EU:2
2646	Simulation of Wave, Diffraction and Vibration Processes in Hydroelastic Systems with Inhomogeneities	Timoshenko Institute of Mechanics; Kyiv	Kubenko Veniamin	\$65,890							US:1 Canada:1 EU:2
2647	Stationary System "Bezpeka" ("Safety") for Monitoring Movement of Ionizing Radiation Sources	"Atom Complex Prylad" Scientific Industrial Company; Kylv	Kazimirov Olexander	\$100,000							US:2 Canada:2 EU:2
2652	Synthesis of New Materials with an Abnormally Large Change in Electric Resistance and Creation Elements on Their Basis for Energy-Saving and Environment-Improving Devices	Institute of Magnetism; Kyiv	Pogorilyi Anatoliy	\$207,915							US:1 Canada:1 EU:2
2653	Development of the High-Efficiency Ungeared Electric Drive for Elevators and Transport Vehicles Using Spraying of Composite Layers	"Quant" Pilot Plant, Paton Electric Welding Institute; Kyiv	Steklov Vasyl	\$168,525							US:1 Canada:1 EU:2
2655	Influence of Transverse Inhomogeneity of the Gas Discharge Plasma on the Characteristics of Laser Generation	Odessa	Bekshaev Olexander	\$48,000							US:2 Canada:2 EU:2
2656	Energy-Conservation Technology for Underwater Preservation of Stores	Sevastopol Naval College; Sevastopol	Baranov Olexander M.	\$82,620							US:1 Canada:1 EU:2
2657	Hardware and Software for Indodiagnosis for Complex Examination of Patient	Sevastopol Naval College; Sevastopol	Avetisyan Ivan P.	\$172,200							US:2 Canada:2 EU:2

Review Incomplete
 Reviews Complete - No Willingness to Fund
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^{4.} Other - See Comments

⁵ Approved with Funding

·	15 th	Governing	Board	Meeting,	December	12,	2002
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#	Full Title	Leading Institution	Project Manager	Requested Funds	USA (US \$)	Canada (US \$)	European Union (EURO)	Other (US \$)	Total Funding (US \$)	Total Funding (US \$ + EURO)	Comment
2658	Magneto-Optical Transformers	Simferopol State University; Simferopol	Dubinko Sergii V.	\$120,000							US:1 Canada:1 EU:2
2659	Magnetic X-Ray Crystallography of Heavy Rare- Earth Metals, Development and Fabrication of Magnetic Concentrators on Their Base	"Kharkiv Institute of Physics and Technology" National Scientific Center: Kharkiv	Bulatov Ofexander S:	\$73,700							US:1 Canada:1 EU:2
2660	Development of Software for Transient Processes of Electromechanical Systems Analysis	Ukrainian Engineering Society in Łviv; Lviv	Tchaban Vasyl	\$75,000							US:2 Canada:2 EU:2
2662	New Low Activated Ceramic-Metal Nanocomposite Materials for Structural Application in Neutron Environment	Galkin Donetsk Institute for Physics and Technology; Donetsk	Gogotsi Georgiy	\$134,178							US:2 Canada:2 EU:2
2665	New Generation Aerodynamic Marine Vehicle	Institute of Hydromechanics; Kyiv	Korolov Volodymyr	\$65,340							US:1 Canada:1 EU:2
2666	Technology for Production of a Rust Transforming Primer from Electrochemical Waste Using Conversion Equipment	"Pivdenne" State Design Bureau; Dnipropetrovsk	Pozdeyev Gennadii	\$220,000							US:2 Canada:2 EU:2
2667	Modeling of the Reliability of Man-Machine Interface System	Kyiv Taras Shevchenko University; Kyiv	Sizykh Natalia V.	\$128,060							US:2 Canada:2 EU:2
2669	Structure and Plasticity of Fullerites	Verkin Institute for Low Temperature Physics and Engineering; Kharkiv	Strzhemechnyi Mykhailo O.	\$63,560			€63,560			€ 63560	US:2 Canada:2 EU:5
2671	Space Radar System for Continuous Surveillance of the Earth's Surface	Kalmykov Center for Radiophysical Sensing of Earth; Kharkiv	Kurekhin Olexander S.	\$112,700							US:1 Canada:1 EU:2
2680	Ukrainian Journal of Research & Development	Institute of Fundamental Problems for High Technology; Kyív	Smertenko Petro	\$78,800	\$30,000				\$30,000	\$ 30000	US:4 Canada:2 EU:2
2682	Ukrainian Ozone Monitoring Network	Institute of Physics; Kyiv	Baschenko Sergiy	\$139,954				_			US:1 Canada:1 EU:2
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; Ternopil	Sidorov Yurii	\$80,080							US:1 Canada:1 EU:2
2687	Flexible Compensators for Oil-immersed Transformer Inlets	"Yuzhkosmos", Concern; Dnipropetrovsk	Rjabovol Albert	\$112,415							US:2 Canada:2 EU:2
2694	Production Process to Manufacture Drill Rods with Increased Service Life	National Mining Academy of Ukraine; Onipropetrovsk	Didyk Rostyslav	\$90,672							US:1 Canada:1 EU:2

Review Incomplete
 Reviews Complete - No Willingness to Fund

^{3.} Rewrite/Resubmit

^{4.} Other - See Comments

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#	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
	Development of Equipment for the Control of Dolphin Health	Institute for Applied Problems in Physics and Biophysics; Kyiv	Misjura Anatoliy	\$199,890							US:1 Canada:1 EU:2
2702	Investigation of Plasma Erosion Opening Switch with Pulsed Gas Injection	Institute of Plasma Electronics and New Method of Acceleration: "Kharkiv Institute of Physics and Technology" National Scientific Center: Kharkiv	Onishchenko tvan N.	\$125,059							US:2 Canada:2 EU:2
	Development of the Piezoelectric Micromanipulator for IVF-Technologies	"Lileya" Small Scientific Production Enterprise; Kyiv	Petrenko Serhiy	\$133,754							US:1 Canada:1 EU:2
Subtota	l Regular Ukrainian Projects Approve	ed:	<u> </u>	\$37,672,058	\$1,072,147	\$107,482	€1,339,322	\$0	\$1,179,629	\$ 1179629 € 1339322	
	Search of Active Strains of Pathogen Microorganisms in Central Asia for Biological Control of Eurasian Origin Weeds. Study of Phytotoxines from Active Strains as Potential Herbicides	Institute of Genetics and Plant Experimental Biology; Tashkent	Abdukerimov A.	\$184,365							US:2 Canada:2 EU:2
	The Development of the Experimental Installation for Drying and Heat Processing of the Free-Flowing Bulk Materials in Fluidized Bed	"Pivdenne" State Design Bureau; Dnipropetrovsk/ Uzbekistan State Space Agency "Uzbekcosmos"; Tashkent	Galas M./ Muminov Kamal	\$230,000							US:1 Canada:1 EU:2
	Monitoring of Optical Glows and VLF Radio Emissions of the lonosphere Aimed at the investigation of Seismo-Ionospheric Effects	Kyiv Taras Shevchenko University; Kyiv/ Institute of Seismology; Tashkent	Ivchenko Vasyl'/ Husomiddinov S.	\$183,180							US:2 Canada:2 EU:2
Uzb-44 (J)	Development of Melted Oxidic Materials for Electronic Through the Use of Cryotechnology	Frantsevich Institute for Problems of Materials Science; Kyiv/ Institute of Material Sciences of Scientific- Production Association "Physics- Sun": Tashkent	Oliker Valerii/ Gulamova D.	\$178,859							US:2 Canada:2 EU:2
Uzb-48 (J)	Magnitoresistive and Photovoltaic Cells on the Basis of Tunnel Nanostructures	Institute of Magnetism; Kyiv/ Arifov Institute of Electronics; Tashkent	Krupa Mykola M./ Paiziev A.	\$273,560							US:2 Canada:2 EU:2
	New Method and Equipment for Electrical Discharge Machining of Different Materials, Including High Ohmic Materials	Arifov Institute of Electronics; Tashkent	Abdukarimov Erkin T.	\$97,414							US:2 Canada:2 EU:2
Uzb-60	The Development and Manufacturing of a Portable Small-Sized Pilot Surface-Ionization Indicator of Narcotic Substances	Arifov Institute of Electronics; Tashkent	Rasulev Utkur	\$87,000						· .	US:1 Canada:1 EU:2
Uzb-61	Development of Principles for Translation of Structure-Oriented Programs into Object-Oriented Ones Using Algorythmic Methods	The institute of Cybernetics SPU "Cybernetics"; Tashkent	Nazirov Shodmankul	\$95,866							US:1 Canada:1 EU:2

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Uzb-63	Development of a Vacuum Arc Treatment for Electro- Conductive Material Surface	Institute of Electronics; Tashkent	Pozharov Sergey	\$142,648							US:1 Canada:1 EU:2
Uzb-70	Technology for Extraction of Gold and Silver from Tailigs in a Microwave Field	Institute of Nuclear Physics; Tashkent	Khidirov Irsali	\$132,200	:						US:1 Canada:1 EU:2
	Ecological and Economical Estimation of Secondary Resources of Uzbekistan and Creation of Ecological-Pure Technologies for Their Conversion	State Fund of Scientific and Technical Information of the Republic of Uzbekistan; Tashkent	Abdiraimov Isametdin	\$84,860							US:2 Canada:2 EU:2
Uzb-78 (J)	Development of Methods of Increasing Safety of Impact-Resistant Glazing for High Speed Railway Vehicles	Pidgorny's Institute for Problems of Machine Building; Kharkiv/ Tashkent State Air Institute; Tashkent	Shupikov Alexander N./ Ganihanov Sharafutdin F.	\$114,000							US:1 Canada:1 EU:2
Uzb-79 (J)	Development of Methods of Increasing Safety of Impact-Resistant Cockpit Transparencies for Civil Aircraft	Pidgorny's Institute for Problems of Machine Building; Kharkiv/ Tashkent State Air Institute; Tashkent	Shupikov Alexander N./ Ganihanov Sharafutdin F.	\$124,000							US:1 Canada:1 EU:2
Uzb-83 (J)	The Method of Finding and Controlling Stressed Zones in Structure Media by Soliton-Like Waves	Subbotin Institute of Geophysics; Kyiv/ Institute of Mechanics and Seismic Stability of Structures; Tashkent	Belinskii Ivan V./ Sultanov Karim	\$119,669					:		US:2 Canada:2 EU:2
Uzb-86 (J)	Wind-Solar Power Plant for Water/Technological Solutions Treatment on Advanced Membrane Technologies Basis	"Pivdenne" State Design Bureau; Kyiv/ Uzbekistan State Space Agency "Uzbekcosmos"; Tashkent	Ushkin Mykola/ Rasuleva Olga A.	\$200,000	-			_			US:2 Canada:2 EU:2
Uzb-91	Development of Radioactive sources for the X-Ray Fluorescence Analysis and Control of Technological Processes	Institute of Nuclear Physics; Tashkent	Kim German	\$229,760							US:1 Canada:1 EU:2
Uzb-94 (J)	Correction of Parameters of Solar and Photodiode Silicon Elements by an Influence of Static Electric and Magnetic Fields	"KVAZAR", Scientific Research Center; Kyiv/ Heat Physics Department; Tashkent	Ashcheulov Anatoly A./ Saidov Abdula A.	\$195,628							US:1 Canada:1 EU:2
Uzb-95	Investigations of Radiation-Induced Non-Stationary Absorption and Luminescence Processes in the Optical Fibers	Institute of Nuclear Physics; Tashkent	Gasanov Eldar M.	\$207,100							US:1 Canada:1 EU:1 US:1
	Search and Investigation of Modes of Superasymmetrical Fission of Actinide Atomic Nuclei	Institute of Nuclear Physics; Tashkent	Koblik Yuriy N.	\$87,740	·						Canada:1 EU:2 US:1
Uzb-99 (J)	Heat-Resistant Titanium with Intermetallics	Paton Electric Welding Institute; Kyiv/ Tashkent State University; Tashkent	Kompan Yaroslab Yu./ Abralov Makhmud A.	\$197,234							Canada:1 EU:2
Uzb-100	Estimation of Radiation Conditions on Territories of Uzbekistan Having Higher-Level Exposure Dangerous for Human Health	Tashkent State University, Institute of Applied Physics; Tashkent	Inoyatov Anvar K.	\$153,240							US:1 Canada:1 EU:2

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Uzb-107	Cooperative International Study Contamination in Transboundary Rivers of Central Asia. Navruz II	Institute of Nuclear Physics; Tashkent	Salikhbaev Umar S.	\$150,000	\$150,000				\$150,000	\$ 150000	US:5 Canada:2 EU:2
Uzb-113	Quasi-Elastic Light Scattering and Cooperative Phenomena in Disordered Lattice of Super-Ionic Conductors	Heat Physics Department; Tashkent	Krivorotov Valeriy	\$56,000							US:1 Canada:1 EU:2
	Modified Magnetron Line for Deposition of Optical Heat-Reflecting Coatings on Large-Area Glass	Institute of Physics; Kyiv/ Institute of Electronics: Tashkent	Panchenko Oleg/ Arnanov Shakirkhodzha	\$160,282							US:1 Canada:1 EU:2
Subtota	I Regular Uzbek Projects Approved:			\$3,684,605	\$150,000	\$0	€0	\$0	\$150,000	\$ 150000 0	
Gr-27 (J)	Multicriterial Optimization of Adaptive Sensors Developed for Ecological Monitoring	Institute of Space Research; Kyiv/ Institute of Control Systems; Tbilisi	Voronin Albert N./ Salukvadze Mindija	\$139,000							US:1 Canada:1 EU:2
Gr-35 (J)	Development of High-Strength Shock-Resistance Boron Carbide Ceramic Using Material Design Computer Techniques	Frantsevich Institute for Problems of Materials Science; Kyrv/ Tbilisi Ivane Javakhishvili State University; Tbilisi	Tkachenio Yurii G./ Mungishvili Z.	\$159,760							US:2 Canada:2 EU:2
Gr-40 (J)	Development of Field Description Ion Source and Technique for Molecular Analysis of Inclusions in Graphite	Verkin Institute for Low Temperature Physics and Engineering; Kharkiv/ Georgian Technical University: Tbilisi	Shelkovskii Vadym/ Dzigrashvili T.	\$63,882							US:2 Canada:2 EU:2
Gr-41 (J)	Development and Design of an Operating Model "X-Ray-Band Laser"	Kharkiv Military University; Kharkiv/ Sukhumi I. Vekua Institute of Physics and Technology; Tbilisi	Oleksandrova Alevtina/ Salukvadze Revaz	\$170,000							US:2 Canada:2 EU:2
Gr-44 (J)	System for Computer-Aided Design of Information and Control Systems (I&C) for Technological Processes (SCADA/MMI Systems)	"Hartron" Research and Production Association, Joint Stock Company, Kharkiv State Technical University of Radio Electronics; Kharkiv/ Georgian Technical University; Tbilisi	Krivonosov Anatolii I./ Gogichaishvily G.	\$170,000							US:1 Canada:1 EU:2
	Elaboration of the Registering Layers for the Optical Record in the Ultraviolet Spectral Range	Institute of Magnetism; Kyiv/ "MIONI" State Scientific Manufacture; Tbilisi	Krupa Mykola M./ Yakashvilli J.	\$270,020							US:1 Canada:1 EU:2
Gr-52 (J)	Development of a Synergy Control System of Energy Consumption for Systems with Renewable Sources	National Technical University of Ukraine "Kyiv Polytechnical Institute"; Kyiv/ Georgian Technical University; Tbilisi	Tereschenko Tetyana A./ Dvali D.	\$172,682							US:2 Canada:2 EU:2
Gr-59 (J)	Development of Optimal Manufacturing Technology and Manufacture of High-Pressure Bottles	"Pivdenne" State Design Bureau; Dnipropetrovsk/ Georgian Technical University; Tbilisi	Yelanskii Yurii A./ Shvangiradze M.	\$199,210							US:2 Canada:2 EU:1

Review Incomplete
 Reviews Complete - No Willingness to Fund
 Rewrite/Resubmit

^{4.} Other - See Comments

#	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
Gr-63 (J)	Reliability Evaluation for Responsible Structures (Building Structures of Nuclear Power Stations (NPS), Pipelines and Reservoirs)	Institute of Mathematics; Kyiv/ Tbilisi Ivane Javakhishvili State University; Tbilisi	Makarov Vladimir L./ Meladze Hamlet V.	\$198,517							US:1 Canada:1 EU:2
Gr-70 (J)	Development and Manufacture of an Experimental Prototype for a Highly-Effective Desalination Installation	"Pivdenne" State Design Bureau; Dnipropetrovsk/ "Membrane" Scientific Research Center; Tbilisi	Bidniak Leonid G./ Tsisino Kurtshalla	\$100,000							US:1 Canada:1 EU:2
Gr-71 (J)	New Generation of Laser Technologies on the Basis of Photopolymerization Induced by Nera IR Light	Institute for Sorption and Endoecology Problems; Kyiv/ Institute of Cybernetics; Tbilisi	Kapinus Eugene/ Khanzer Gaprindashvili	\$188,000							US:2 Canada:2 EU:2
Gr-74 (J)	Development of a Monitoring System for Water Expenditure in Open Reservoirs and Irrigating Channels	Mechnikov Odessa State University; Odessa/ "Delta" Research and Development Center; Tbilisi	Budianska Lyudmyla M./ Khachidze Robert M.	\$147,400				-			US:2 Canada:2 EU:2
Gr-75 (J)	Development of Universal Software Module for Research Kinetics of Damages Accumulation in Materials	"Pivdenne" State Design Bureau; Dnipropetrovsk/ Sukhumi Physical and Technical Institute; Tbilisi	Pinyagin Victor/ Nardaia Yurij	\$99,000							US:1 Canada:1 EU:1
Gr-79 (J)	Research, Design, Development and Integration of Environmentally Pure Ozone-Safe Fire-Explosion Prevention System of Launch Vehicles for International Programs	"Pivdenne" State Design Bureau; Dnipropetrovsk/ Sukhumi Physical and Technical Institute; Sukhumi	Nezhovanyy Yevgen P./ Chanturidze Vladimir	\$195,000							US:1 Canada:1 EU:2
Gr-80 (J)	Electroluminescent and Liquid Crystal Visualization System of Spatial-Temporal Electrical Changes in Semiconductors	Institute of Semiconductor Physics; Kyiv/ Institute of Cybernetics; Tbilisi	Glinchuk K.D./ Chilaya G.	\$126,136							US:2 Canada:2 EU:2
Gr-81 (J)	Microclimate Chamber Development of a Space Greenhouse for International Space Program	National Technical University of Ukraine "Kyiv Polytechnical Institute"; Kyiv/ Sukhumi Physical and Technical Institute; Tbilisi	Rassamakhin Borys M./ Nardaia Juri	\$131,000							US:1 Canada:1 EU:2
Gr-83 (J)	Development of Synthesis Techniques and Industrial Technologies of Production of Materials for Reaction Vessels of Lithium Power Sources	"Zirconium" State Scientific- Production Enterprise; Oniprodzerzhinsk/ Institute of Inorganic Chemistry and Electrochemistry; Tbilisi	Plakhotnyk Volodymyr/ Kachibaia Eteri	\$162,284							US:1 Canada:1 EU:2
Gr-84 (J)	Investigation of Influence of Microwave Radiation and Thermochemical Processing on Biothermophysical Processes in Plants (Tea, Tobacco)	"Ukraine" Open International University of Human Development; Kyiv/ "OPTICA" Scientific Research Institute; Tbilisi	Drozdenko Victor/ Avaliani Jemal								US:2 Canada:2 EU:2 US:1
Gr-88	Development of a Mobile Arc Plasma Apparatus for Fusing of Hard Materials	Institute of Mining Mechenics; Tbilisi	Gelenidze Medgar	\$273,850							Canada:1 EU:2
Gr-89	Synthesizing of New Composite Materials in Ni-Al Systems with Method of Pulse Loading	F. Tavadze Institute of Metallurgy; Tbifisi	Chkhartishvili Irakli V.	\$370,075					_		US:2 Canada:2 EU:2

^{1.} Review Incomplete

Reviews Complete - No Willingness to Fund
 Rewrite/Resubmit

^{4.} Other - See Comments

#	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
Gr-90 (J)	High Sensitivity Small-Sized Semiconductor Gas Analyzer for Uninterrupted Control of Methane Content in the Atmosphere of Coal Mines	Frantsevich institute for Problems of Materials Science; Kyiv/ Tbilisi State University; Tbilisi	Lashkarev Georgii/ Kekelidze Gizi	\$180,035							US:1 Canada:1 EU:2
Gr-91 (J)	Novel Radiation-Resistant Composite Chalcogenide and Chalcogen Halide Materials for Electronic, Optoelectronics and Nonlinear Equipment	Vernadskii Institute of General and Inorganic Chemistry; Kyiv/ Institute of Inorganic Chemistry and Electrochemistry; Tbilisi	Pekhnyo Vasyi I./ Tushurashvili R. G.	\$199,865							US:2 Canada:2 EU:2
Gr-92 (J)	Development of New Technologies and	Karpenko Institute of Physics and Mechanics; Kyiv/ F. Tavadze Institute of Metallurgy; Tbilisi	Muravsky Leonid/ Khantadze Jumber V.	\$241,588							US:1 Canada:1 EU:1
Gr-96	Development of the Effective Bacterial Leaching Technology of Low Grade Manganese Ores and Slimes	Caucasian Institute of Mineral Resource; Tbilisi	Sakhvadze Lamara	\$242,810							US:1 Canada:1 EU:2
Gr-97 (J)	I seer Enitary IR Photosensitive Quantum-	Institute of Semiconductor Physics; Kyiv/ Tbilisi Ivane Javakhishvili State University; Tbilisi	Plytsko Sergiy/ Tsekvava Boris E.	\$197,400							US:1 Canada:1 EU:2
Gr-98	Development of Software Package for Dynamic Calculation of Maximum Allowable Discharge (MAD) Depending on River Overall State and Economic Interests of Water Users from Georgia	Institute of Applied Mathematics; Tbilisi	Kachiashvili Kartlos	\$138,701							US:1 Canada:1 EU:2
Gr-99	Development of a New Theory of Rock Bumps, as an Earthquake Model, and the Computation of the Dynamic Parameters	Institute of Mining Mechenics; Tbilisi	Rekhviashvili luri	\$116,800							US:1 Canada:1 EU:2
Gr-101	Creation of Collection of Extremophilic Mycelial Fungi Isolated from All Ecological Niches of the Caucasus, Investigation Their Pathogenicity and Elaboration of the Technologies Based on Their Degradational, Oxidizing and Synthesizing Potential	Durmishidze Institute of Biochemistry and Biotechnology; Tbilisi	Kutateladze Lali	\$280,000	\$280,000				\$280,000	\$ 280000	US:5 Canada:2 EU:2
Gr-105	Development of a New High-Performance and Ecologically Clean Technology for Arsenic Sulfide Ores Processing	Georgian Technical University; Tbilisi	lashvili Tengiz	\$198,287							US:1 Canada:1 EU:2
Gr-106	Phyto-Remediation of Soils Contaminated by Petroleum	Durmishidze Institute of Biochemistry and Biotechnology ; Tbilisi	Betsiashvili Mariam	\$195,000							US:2 Canada:2 EU:2
Gr-109	Ecological Danger of Pesticides Residues, Establishment of the Ways of Detoxification and Working Out of Practical Recommendations for Deactivation of Contaminated Territories	Durmishidze Institute of Biochemistry and Biotechnology ; Tbilisi	Kakhniashvili Christo	\$183,420							US:1 Canada:1 EU:2

Review Incomplete
 Reviews Complete - No Willingness to Fund
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Other - See Comments
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#	Full Title	Leading Institution	Project Manager	Requested Funds	USA (US \$)	Canada (US \$)	European Union (EURO)	Other (US \$)	Total Funding (US \$)	Total Funding (US \$ + EURO)	Comment Condition
	Processing of Effective Technology for Biorecultivation of Destroyed Landscapes by the Fertilizers Prepared from Local Unused Resources	*Sakagrobiomretsvi*; Tbilisi	Zakaidze M.	\$206,550							US:1 Canada:1 EU:2
	Mathematical Modeling and Prediction of Environmental Impacts on Dam and Reservoir Region due to Extreme Landslidegenic Water Waves	"Energia", LTD; Tbilisi	Matcharadze G:	\$110,409	-						US:1 Canada:1 EU:2
Gr-113	Landshoegenic water waves Elaboration of Highly-Active Intestinal and Staphylococcal Bacteriophages in Suppository Forms for the Application in a Medical Practice	Institute of Bacteriophagy, Microbiology and Virology; Tbilisi	Giorgadze Inga	\$202,720							US:1 Canada:1 EU:2
Gr-115	Creation and Study of Antimicrobal - Antifungal	G. Eliava institute of Bacteriophage, microbiology and virology; Tbilisi	Goderdzishvili Marina	\$280,235							US:2 Canada:2 EU:2
Gr-119	Selection and Property Studies of the Virulent	 G. Eliava institute of Bacteriophage, microbiology and virology; Toilisi 	Darsavelidze Marina	\$293,805							US:1 Canada:1 EU:2
Subtota	l Regular Georgian Projects Approve	ed:		\$6,803,291	\$280,000	\$0	€0	\$0	\$280,000	\$ 280000 0	
Subtota	l Regular Projects Approved:			\$48,159,954	\$1,502,147	\$107,482	€1,339,322	\$0	\$1,609,629	\$ 1609629 € 1339322	
NN-02 (R)	The Influence of Microgravity on Growth, Structure, and Function of Nerve and Endocrine Transformed Cells	Institute of Physiology; Kyiv	Lukyanetz Olena	\$50,000	\$50,000				\$50,000	\$ 50000	US:5 Canada:2 EU:1
NN-07 (R)	The Role of the Second Messengers in Signal Transduction During the Adaptation of Plant Metabolism to the Weightless Conditions	Institute of Plan Physiology and Genetics; Kyiv	Kravets Volodymyr S.	\$50,000	\$50,000				\$50,000	\$ 50000	US:5 Canada:2 EU:1
NN-09 (R)	Moss Protonema as a Model Object in the Study of Microgravity Impact on Plant Growth and Morphogenesis	Institute of Ecology of the Carpathians; Lviv	Demkiv Orest T.	\$45,000	\$45,000				\$45,000	\$ 45000	US:5 Canada:2 EU:1
NN-10 (R)	The Influence of Microgravity on Kinetics and Trophy of Plant Meristem	Institute of Cell Biology and Genetics Engineering; Kylv	Grodzinsky Dmitry	\$50,000	\$50,000				\$50,000	\$ 50000	US:5 Canada:2 EU:1
NN-11 (R)	Investigation of Microgravity Effect on Tumor Formation in Plans with the Use of Agrobacterium Tumefaciens Induced Crown Gall Tumors as a Model	Institute of Plan Physiology and Genetics; Kyiv	Samatska Veresa V.	\$30,000	\$30,000				\$30,000	\$ 30000	US:5 Canada:2 EU:2
	Deferense Properties of Fungal (Lichen) Structures in Outer Space	Institute of botany; Kyiv	Kondratyuk Sergey	\$20,000	\$20,000				\$20,000	\$ 20000	US:5 Canada:2 EU:1

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Review Incomplete
 Reviews Complete - No Willingness to Fund
 Rewrite/Resubmit

^{4.} Other - See Comments

~	15 th Governing	Board	Meeting,	December	12,	2002
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#	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
NN-19 (R)	Investigation of Biomineralization Processes of Microalgae in Microgravity	Institute of botany; Kyiv	Estrela-Llopis Victorio R.	\$30,000	\$30,000				\$30,000	\$ 30000	US:5 Canada:2 EU:1
NN-20	Influence of the Space Flight Factors on Aging Pattern and Life Span	Institute of Gerontology; Kyiv	Muradian Khachik	\$40,000	\$40,000				\$40,000	\$ 40000	US:5 Canada:2 EU:2
NN-24 (R)	Researching the Effect of Space Flight on Biological Properties of Human Resident Flora in Vitro in Vivo Investigations	Institute of Urology and Nephrology; Kyiv	Rudenko Adel	\$40,000	\$40,000				\$40,000	\$ 40000	US:5 Canada:2 EU:2
	Influence of Spaceflight Conditions on Blood Microcirculation and Rheological Properties of Blood in Human	Institute of Gerontology; Kyiv	Korkushko Oleg V.	\$40,000	\$40,000				\$40,000	\$ 40000	US:5 Canada:2 EU:1
NN-27 (R)	Influence of Microgravity on the Grow, Maturity, Reproduction and Behavior of Daphnia	Palladin Institute of Biochemistry; Kyiv	Nazarenko V. I.	\$40,000	\$40,000				\$40,000	\$ 40000	US:5 Canada:2 EU:1
	Computer System for Assessment of Mood and Performance	Center of Ergonomics and Safety; Kyiv	Burov Alexander	\$40,000	\$40,000				\$40,000	\$ 40000	US:5 Canada:2 EU:1
	The Development of Physicochemical and Engineering Fundamentals to Get Metallic Materials with Elements of Self-Organization for Operation in Extreme Conditions	Frantsevich Institute for Problems of Materials Science; Kyiv	Skorokhod Valery	\$100,000	\$100,000				\$100,000	\$ 100000	US:5 Canada:2 EU:2
	Fundamental Physics and Astrophysics on-board the ISS: Theoretical Basis for General Relativity Tests and Astronomical Support of the Asteroid- Hazard Observational Program	Astronomical Observatory of Kyiv Taras Shevchenko University; Kyiv	Vavilova Iryna B.	\$135,000	\$135,000				\$135,000	\$ 135000	US:5 Canada:2 EU:1
	I NASA/NSAU Projects Approved:	<u> </u>		\$710,000	\$710,000	\$0	€0	\$0	\$710,000	\$ 710000	
	NASA/NSAG FIGERS APPROVED: Scientific Protocol for the Study of Leukemia and Other Hematological Diseases Among Clean Up Workers in Ukraine Following Chemobyl Accident	Center for Radiation Medicine of AMSU	Prof. Romanenko Anatoliy Yuhimovich	\$395,480	\$395,480				\$395,480	\$ 395480	
P093a	Design, Manufacturing and Installation at Texas Tech University of the High Pressure Apparatus for Investigations of Materials Behavior at High Pressure and Shear Strain	Institute of Superhard Materials	Shvedov Leonid Konstantinovich	\$14,000	\$14,000				\$14,000	\$ 14000	
	Development and investigations of the high intensity Li+ and Na+ ion emitters and sources for the measurement of plasma parameters in the ASDEX Upgrade tokamak by neutral beam probing diagnostics, in particular beam emission spectroscopy.	National Science Center "Kharkiv Institute of Physics and Technology"	Dr. Krupnik L.I.	€15,000			€15,000			€ 15000	
P103	Stand for Quasioptical Reserches	Institute of Radiophysics and Electronics of NASU	Kiselyov Volodymyr	\$50,000	\$50,000				\$50,000	\$ 50000	
P104	Electron-beam Sterilizer	National Aviation University	Victor V. Kulish	\$729,163	\$729,163			<u> </u>	\$729,163	\$ 729163	

Review incomplete
 Reviews Complete - No Willingness to Fund
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^{4.} Other - See Comments

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					USA	C(\(\int_a\)	European	Other	Total	Total	
#	Full Title	Leading Institution	Project	Requested	(US \$)	(US \$)	Union	(US \$)	Funding	Funding	Comments
"	Tun 7550		Manager	Funds			(EURO)		(US \$)	(US \$ +	Conditions
<u> </u>			1		24.0 2.000			 	\$1,912,000	\$ 1912000	
P106	Development and Delivery of a Big Size Electron Beam Welding Machine	Paton Welding Institute of NASU	Nesterenkov V.M.	\$1,912,900	\$1,9 2,000			<u> </u>			
P107	Welding and Brazing for Repair of Aircraft and Gas Turbine Engine Components	Paton Welding Institute of NASU	Yushchenko Konstantin A.	\$1,260,000	\$1,250,000				\$1,260,000	\$ 1260000	
P108	Deposition of Titanium Nitride Coatings onto Flat Panels and Compressor Blades by Modified Electron Beam Physical Vapor Deposition (EB PVD) Process for Cametoid Limited	International Center for Electron Beam Technologies of Paton Welding Institute of NASU	Yakovchuk Konstantin Yuvenaliyovich	\$43,000		\$45,000	<u>.</u>		\$45,000	\$ 45000	
P109	Solving of the Boundary Problems on Stress-Strained State and Dynamic Characteristics of the Complex Shape Shells - Pneumatic Tires on the Basis of Different Models.	Institute of Mechanics	Grigorenko Yaroslav Michaylovich	€11,000			€11,000			€ 11000	
P-115	Characterization of Phytoalexins from the Maivaceae in uzbekistan	A.S. Sadykov Institute of Bioorganic Chemistry NASU	Golubenko Z.	\$295,975	\$295.975				\$295,975	\$ 295975	
P-117	Discovery, Synthesis, and Evaluation of New Pheromones for Insect Pests in Uzbekistan	A.S. Sadykov Institute of Bioorganic Chemistry NASU	Abdukakharov V. S.	\$3 10,000	\$300.000				\$300,000	\$ 300000	
P118	Performance Testing for grain-refinement in Ti6-4 and alloy 718 by Twist Extrusion	Donetsk State Technical University	Orlov Dmitro Valentinovich	\$13,520	\$19,520				\$19,520	\$ 19520	
P130	Design, Construction and Onsite Testing of a New N- gamma-logging Device for Environmental and Geological Applications	Institute for Single Crystals of NASU	Galunov Nikolai Zaharovich	€69,467			€69,467			€ 39467	
Subtot	al Partner Projects Approved:			\$ 5,021,138 € 95,467	\$4,976,138	\$45,000	€95,467	\$0	\$5,021,138	\$ 021138 € 95467	

	TOTAL:		\$ 53,891,092	\$7,188,285	\$152,482	€1,434,789	\$0	\$7,340,767	\$ 7340767	 ٦
€ 95,467	TOTAL.	·	€ 95,467	1	l		i		€ 1434789	 ╝

Mr. S. C. Engelken
Acting USA
Board Member

Mr. D. Banks Acting Canadian Board Member

Mr. Y. Yatskiv ... Ukrainian Board Member

Ambassador N. Jousten Acting EU Board Member (for the European Commission)

Ambassador P. Goumas EU Board Member (for the EU Presidency)

Review Incomplete
 Reviews Complete - No Willingness to Fund
 Rewrite/Resubmit

^{4.} Other - See Comments

^{5.} Approved with Funding

STCU SUPPLEMENTAL BUDGET 15th Governing Board Meeting, December 12, 2002

#	Full Title	USA (US\$)	Canada (US \$)	European Union (EURO)	Other (US \$)	Total Funding (US \$)	Total Funding (US \$ + EURO)
Supp	lemental Budget:				,		
Activ	rity:						
01	Technical, Collaborator, and Contractor Travel Support (Project Related)	\$ 15 000		-		\$15 000	\$15 000
02	Information Technology Support	-		-		-	-
03	Communications Support	-				-	-
04	Business Training/Sustainability Support	\$33 990	\$4 130	12 000		\$38 120	\$ 38120 EURO12000
05	Patent Support	\$27 192	\$3 304	10 000		\$30 496	\$ 30496 EURO10000
06	Travel and Mobility Support	\$125 586	\$5 782	19 500	\$475 322	\$606 690	\$ 606690 EURO19500
07	Expert Contract (Program Related)		<u>-</u>	-		<u> </u>	-
08	Expert Review and Advisors	-	-	-	ļ	-	-
09	Seminars/Workshops Support	\$23 114	\$2 808	8 500		\$25 922	\$ 25922 EURO8500
10	Service Contracts	\$550 000	-	250 000		\$550 000	\$ 550000 EURO250000
Tota	l Supplemental Budget:	\$774 882	\$16 024	300 000	\$475 322	\$1 266 228	S 1266228 EURO300000

Acting Board Member for USA

Mr. D. Banda

Board Member for Canada

Board Member for Canada

Mr. Y. Yatskiv Board Member for Ukraine Ambassador N. Jousten
Board Member for the European Union
(for the European Commission)

Ambassador P. Goumas oard Member for the European Union