

STCU Project Funding Table
4th Governing Board Meeting, May 15-16, 1997

SIGNED ORIGINAL

Project Number	Full Title	Institution	Requested Funds (\$1000)	US Funds	Canadian Funds	Swedish Funds	Comments Conditions	Total Funding (\$1000)
51A	Titanium Alloys with Stable Mechanical Characteristics on Exploitation in Wide Temperature Range (Additional funds to a previously funded project)	Institute of Metal Physics, 252680 Vernadsky, 36	9,470	9,470			5	9,470
84	Development of the Technology for Intensive Deep Evaporation of Mineralized Waters, Development and Manufacture of Installations for Industrial Wastewater Evaporation and for Desalination of Natural Mineralized Water	Design Office "Pivdenne" 3 Kryvorizhska St., Dnipropetrovsk 320008	237,680				2	
12B-2	Development of High-Performance Equipment and Process Engineering to Bore the Boreholes by Means of Mining Rock Melling	State Design Bureau "PIVDENNE" 3, Kryvorizhska Street Dnipropetrovsk, 320059	350,000				3	
143	Development and Design of Prototype of Small-Dimension Photoelectric Quantometer	Institute of Radio Physics and Electronics 12, Ac. Proskura Street Kharkiv, 310085	144,000	144,000			5	144,000
145	Backgrounding of Nonstationary Radar Techniques Observation Methods on Sea Surface	Institute of Radio Physics and Electronics 12, Ac. Proskura Str., Kharkiv, 310085	34,894			34,894		34,894
146	The Working Out of Radar Multichannel Methods for Remote Sensing of Soil and Vegetation	Institute of Radiophysics and Electronics 12, Ac. Proskura Str., Kharkiv, 310085	52,500				2	
150	Precision Radar Measurements at Millimeter Waves Nearby Outside Reflectors and Boundary Surfaces	Institute of Radio Physics and Electronics 12 Ac. Proskura Street Kharkiv, 310085	34,400			34,400		34,400
182	Simulation of Dynamical Behavior of General-Purpose Structural Heterogeneous Systems Under Action of Blast and Shock Loads	Institute of Mechanics named after S. P. Timoshenko 3, Nesterova Str., Kiev, 252057	120,000	120,000			5	120,000

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183(R)	Radiation Technologies for Public Health Control, Food Industry and Ecology	Scientific and Technological Center of Electrophysical Treatment 8 Valler, 3 Box 9410 Kharkiv, 31010	199,000				2	
276 (R)	The Investigation of Traveling Discharge, Its Use for Nonequilibrium Plasmachemistry and for the Solution of Ecological Problems	National Science Center "Kharkiv Institute of Physics and Technology", KIPT 1, Academiceskaya Str., Kharkiv, 310108	100,000	90,000	10,000		5	100,000
295(R)	Development of Plasma Surgical Complex	State Design Office "PIVDENNE" 3, Kryvonizhska Str., Dnepropetrovsk, 320008	129,100	38,730	90,370		5	129,100
296	Mathematical Modeling of the Complex of Political and Macroeconomical Processes of the State Building and Estimation of Their Influence on the Regional Stability	National Institute for Strategic Studies, Dnepropetrovsk Branch 3 Krivonizhska Street Dnepropetrovsk 320008	88,000				2	
317	Microwave Gas Discharges Produced and Sustained by Surface Waves	Kharkiv State University 4, Svobody Sq., Kharkiv, 310022	83,176	83,176			5	83,176
319(R)	Working Out of Methods Algorithmic Means and Software for Efficient Data Processing in Computed Tomography Oriented to Non-Destructive Testing of Industrial Products	Institute of Data Recording Problems 2, Shpack Street Kyiv, 252113	130,000				2	
341	Full Area Reduction System for Expected Launch Vehicle Modules	Electroautomatica Design Bureau "Hartron" 166, Lenin Ave., Kharkiv, 30035	483,527				2	

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346	Investigation of Regular and Stochastic Dynamical Progresses in Crystalline Matters by Means of New Hypersonic and Electromagnetic Methods.	Institute of Radio Physics and Electronics 12, Ac. Proscura Str., Kharkiv, 310085	97,492	97,492			5	97,492
348(R)	Elaboration and Investigation of New Highly Effective Nonlinear-Optics Radiation-Resistant Materials for the Creation on its Base Fast devices for Laser Beam Parameter Control	Institute of Physics of the NASU 46, Nauky Avenue Kyiv, 252650	100,000	100,000			5	100,000
355(R)	Foundation of Ukrainian National Nuclear Data Center	Institute for Nuclear Research 47 Prospect Nauky Kyiv, 252650	138,100	110,480	27,620		5	138,100
366	Creation of Elementary Base for the Video Pulse Ground-Penetrative Radar	Institute of Radio Physics and Electronics 12, Ac. Proscura Str., Kharkiv, 310085	159,242	159,242			5	159,242
373	Theoretical and Experimental Investigation and Development of the Perspective Spectral Analysis Methods in Application to Medicine and Different Fields of Engineering	Academy of Science of Applied Radioelectronics 6, Svoboda Sq., Kharkiv, 310043	46,140				2	
374	Optimization of Control of Elastic Coatings	Scientific Research Institute for Applied Problems of Hydro-Aerodynamics and Heat Transfer in KPI 37, Peremohy Ave., Kyiv, 252056	79,040				2	
378(R)	Development Nonequilibrium Plasma Enhanced Vapour Deposition for Producing High Purity Materials and Coatings to be used in Microelectronics and Pure Matter Production	Technological Enterprise for Producing Pharmaceutical Equipment "PLASMED" 16, Fisenkivska Str., Kharkiv,	200,000	200,000			5	200,000

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380(R)	Thermostable Wide-Range Multipurpose Optical Elements	Institute for Single Crystals of the NASU 60, Lenin Avenue Kharkiv, 310001	80,000	80,000			5	80,000
383	Development and Introduction into Industry of a Number of Powerful Semiconductor Devices with MOS-Control and Electronic Circuits of Energy-Saving Equipment Based on Them	Special Design Bureau "RUTA" 248, Ruska Str., Chernivtsi, 274023	160,000				1	
387	Radionet of Telemetry Information	RI "KVANT" 5 Dimitrova Street Kyiv, 252006	107,666				1	
391(R)	Development and Construction of the Long-Term Recording and Data Processing Facilities on the Basis of Novel Ferrite Materials	Department for Special Training of Kyiv National University 54 Volodimirska Street Kyiv, 252601	106,000	106,000			5	106,000
393	Development of Design Principles and Experimental Breadbroading of the Pulse Coaxial Cold-Cathode Magnetrons Locked by External Signal for Meterological Radars	Institute of Radio Physics and Electronics 12, Ac. Proscura Str., Kharkiv, 310085	197,068				2	
412(R)	An Elaboration of Information Technologies of Functioning, Programming and Adjusting of Neurons Systems for Parallel Signals Processing	Scientific-Production Center "Information Technologies and Systems", Institute of Physics and Mechanics 5 Naukova Street Lviv, 290053	99,655	99,655			5	99,655
421	Creation of Ecological Clean Internal Combustion on the Base of Using Hydrogen as Fuel and Hydrogenerators for Autonomous Lifter	Institute for Problem in Machinery of the NASU 2/10, Pozharsky Str., Kharkiv, 310046	165,600				2	

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426	Development of High Effective Production Methods and Treatment of Oxide Powders for Ceramic Manufacturing Obtained from the Ukrainian Raw Materials	Donetsk Physics-Technological Institute 72, R. Luxembourg Str., Donetsk-340114	122,380	122,380			5	122,380
437(R)	Elaboration of Physics Base and Creation of Electronically Tuned Multifrequency Lasers and Development of New Communication Systems, Lidar's Technology and Analytical Equipment on that Base	SONAR" Research Center of NASU 52/2, Peremohy Avenue Kyiv, 252057	191,880	191,880			5	191,880
447	Grain-Crops Microwave Protection at Agricultural Enterprises of Ukraine	National Scientific Center "Kharkiv Institute of Technical Physics" 17, Tchkalova Str., Kyiv, 310070	117,838	117,838			5	117,838
451	Development and Constructing of Powerful Effective Tunable Pulse-Periodic Lasers for Optical Range of Spectrum	Institute of Radio Physics and Electronics 12, Ac. Proscura Str., Kharkiv, 310085	136,400				2	
463	Carrying Out of Experimental and Design Works for Using Carbon-Carbon Composites with Pyrolite Matrix Industrial Articles	Company "Grafir" GSP-982 Zaporizja 330600	200,450	100,225		100,225	5	200,450
473	Mathematical Modeling of Vortex Structures and Mass Transfer Characteristics of Near-Wall Flows	Institute of Hydromechanics 8/4, Zhejzabov Street Kyiv, 252057	70,737	70,737			5	70,737
477	Development of a New Generation of Microelectronic Temperature Sensors Directed to Increase in Efficiency of the Energy-Saving Technologies on the Basis of Raw Material Resources of Ukraine	Institute of Semiconductor Physics 45, Nauky Avenue Kyiv, 252650	204,106	204,106			5	204,106
474	Development of the Conditions Prediction Methods for the Safe Transportation of the Ecologically Dangerous Cargo in Tank-Cars	Institute of Technical Mechanics of the NASU 15, Leshko-Popel Str., Dnipropetrovsk, 320600	100,000				2	

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481	Elaboration of Efficient Methods, Algorithms and Programs for Computations of Dynamical State of Complex Deformable Structures	Kharkiv Aviation Institute 17, Chkalova Str., Kharkiv, 310084	76,985				2	
490	No-Failure Power Supply Devices for Power-Intensive Resource Saving Technologies	Institute of Electrodynamics of the National Academy of Sciences of Ukraine 56 Peremohy Avenue Kyiv, Ukraine 252600	151,000				2	
491	Development of Welding Consumables of a New Generation for Welding the High-Strength Low-Alloyed Steels	E. O. Paton Electric Welding Institute 11, Bozhenko Str., Kyiv, Ukraine 252650	230,000				1	
497	Elaboration of Automatic System of Control by Trail Fishing of Ocean Ship on the Basis of Experience on Projection of Underwater-Towed Long Flexible Antenna	SRI of New Physics and Applied Problems 160/20, Frunze Str., Kyiv, Ukraine 252073	50,520				1	
500	Development of the New Electrophysical Methods of Reducing of Residual Stresses in Welded Constructions and Creation of the Proper Technology and Equipment	SPC "Technomash" 17, Pushkinskay Str., Mykolaiv, 327017	841,800				2	
502	Development of Experimental and Theoretical Methods of Creation of Metal-Based Structures with Pre-defined Radiative Properties and Electroconductivity	Institute for Applied Problems of Mechanics and Mathematics 3b, Naukova Str., Lviv, 290601	105,058				2	
503	Creation of Energy-Reserving Technological Processes in Production of Small Color Kinescopes and Deflection Systems	Institute for Applied Problems of Mechanics and Mathematics 3b, Naukova Str., Lviv, 290601	102,418				1	
511(R)	Development of a Car Pneumatic Suspension with Separate Low- and High-Frequency Vibration Damping	Institute of Technical Mechanics of the NASU 15, Leshko Pupel Str., Dnipropetrisk, 320600	150,000	135,000	15,000		5	150,000

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513	Development of Design Documentation and Manufacturing of Pilot Sample of Air-tight Grain Storehouse for Long Storage of Grain with Different Humidity in Regulated Gas Medium	State Design Office "Pivdenne" 3, Kryvoizhiska Str., Dnipropetrovsk, 320008	544,530				2	
517	Development of the Base Technology Production of Electrochromic Light Modulation Windows	Kyiv National State University 64, Volodymyrska Street Kyiv, 252017	189,360	189,360			5	189,360
520	Development of the Physical Principles and Techniques of Non-destructive Ultrasound Method of Determination of the Two-axial, Three-axial Bulk and Near-surface Applied and Residual Stresses on the Members	Institute of Mechanics 3, Nesterov Str., Kyiv, 520570	45,360				2	
526	2 KW-Class CW ND: YAG Technological Laser	International Center "Institute of Applied Optics" 10-G, Kudravska Str., Kyiv, 253054	123,928	123,928			5	123,928
528	Fish Counting System	ESTA* Electronic Systems Ltd., 88/2, Peremohy Ave., Apt. 36 Kyiv, 252062	203,777				2	
531	Development of the Technology of Improvement Physical and Mechanical Characteristics of Materials by Exciting Self-Organizational Processes	Institute of Technical Mechanics of the NASU 15, Leshko-Popel Str., Dnipropetrovsk, 320600	110,000				2	
537	Coastal Radar System for Ship Traffic Control	RI "Kvant" 5, Dimitrov Str., Kyiv, 252006	176,300				1	
538	Radar System for Measuring of Liquid's Level in Tanks	RI "Kvant" 5, Dimitrov Str., Kyiv, 252006	106,420	106,420			5	106,420

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545	Gasifier for Producer Gas Generation from Biomass Residues of Agricultural Production (40 m ³ /h)	Institute of Engineering Thermophysics, NASU 2a, Zhelynabov Street Kyiv, 252057	50,000	50,000			5	50,000
551	The Development of Technology of Creating Semiconductive Devices on the Amorphous Silicon Carbide Base	Institute of Materials Science Problems Gerajiv Dnipro Str., 73/78, 252214 Kyiv.	73,580	73,580			5	73,580
553	Development of New Method of the Electropolishing of Transfer Metals from Untoxic Electrolytes	Institute of General and Ionogenic Chemistry, 32/34 Palladin Str., Kiev, 142	60,800	60,800			5	60,800
555	Developing of Diagnostic Methods of the Main Electric Generators' Units by Means of Optical Sensing Elements for the Improvement of Electric Supplying Systems Operation	Institute for Problems of Materials Science 3, Krzhizhanovsky Str., Kyiv, 252680	84,951				2	
556	The Information Measuring Computer Complex for Research on High Energetic Magnetic Materials Based on Rare Earth Elements	"KIVPRYLAD" 56, Peremogy Ave., Kyiv, 252680	138,902				2	
559	Development of Phase Encoding Image Correlation Analysis Methods for Efficiency Increasing of Pattern Recognition Holographic Systems	Institute for Condensed Matter Physics 1, Svetsitsky Str., Lviv, 290011	106,594	74,615.80		31,978.20	5	106,594
560	Development of Designs and Technologies of Manufacture of Welded High-Pressure Vessels of Conversion Enterprise Materials for Natural Gas used as a Motor Fuel, as well as Fuel for Non-Gas Supply Areas	E. O. Palon Electric Welding Institute 11, Bozhenko Str., Kyiv, 252650	188,132				1	

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567	Investigation of the Mechanisms of Microwave (in particular, Gyrotron) Radiation Interaction with Semiconductor Materials and Structures with the Aim to Develop New technological Processes for Manufacturing Semiconductor Materials and Devices	Institute of Semiconductor Physics 45, Nauky, Pr., Kyiv, 252650	418,400				2	
572	Nontraditional Problems for Optimization Dynamic Processes and Optical Design of Some Technical Systems	Kyiv State University 69, Zakrevskogo Str., Apt. 11 Kyiv, 252232	160,000				2	
580	Research and Development of the Resource-Saving Equipment and Energy-Saving Technique for Production of Concentrator Mirrors for Efficient Solar Energy Utilization	Institute of Radio Astronomy 4, Chetvonopraporna Str., Kharkiv, 310002	92,520	92,520			5	92,520
584	Self-Organization of Ecological and Economical Systems	Institute of Applied Problems of Mechanics and Mathematics 3 "b", Naukova Str., Lviv, 290601	99,000				2	
587	Elaboration of Methods for Forced Testing of Products Made from Brittle Materials Operating Under Ionizing Irradiation	Institute for Applied Problems of Mechanics and Mathematics 3 "b", Naukova Str., Lviv, 290601	152,372				2	
597	Ecologically Safe Heat- and Sound-Insulation Fibrous Materials	Institute of Surface Chemistry 31, Nauky Ave., Kiev, 252022	140,723				2	
602	Design and Manufacturer of Hardware and Software Complex for Arc Welding Process Monitoring, Preliminary Technical Diagnostics and Welder Training in Nuclear Power Engineering	E. O. Paton Electric Welding Institute of the NASU 11, Bozhenko Str., Kyiv, 252650	243,349	139,000			4	139,000
603	New Active Mineral Fillers for Polymeric Composites	Institute of Bio-Colloid Chemistry of NASU 42, Vernadsky Ave., Kyiv, 252142	163,340				2	


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613	Creation and Investigation of Properties of Thin Film Phosphors for Flat Displays	Lviv Ivan Franco State University 50, Dragomanova Str., Lviv, 290005	176,928	176,928			5	176,928
614	Investigation of Stress-Strained State, Stability and Vibrations of Shell Systems, Preparation of Recommendations for Rational Parameters Choice and Development of Constructions Elements for Shipbuilding	Institute of Mechanics of NASU 3, Nesterova Str., Kyiv, 252057	174,680				1	
615	The Sarcophagus as a Source of Radiation Impact to the Environment	Chernobyl Branch of the Ukrainian Hydrometeorological Research Institute 72-a, Radianska Str., Chernobyl, 255620	320,000				2	
631	Development of New Powder Lubrication Materials for Valves Guides of Internal-Combustion Engines	Tribotech-Composite Ltd., Science-Production Association 12, Lesia Ukrainka Blvd., Apt. 112, Kiev, 252133	70,000	35,000	7,000	28,000	5	70,000
645	Thermophysical Properties Investigation of Heat-Protective Materials in Simulated Employed Conditions	Institute for Problems of Materials Science 3, Krzhizhanovskiy Str., Kiev, 252680	46,950	46,950			5	46,950
656	Development and Production of High Energy Lithium Accumulators	State Design Bureau "PIVDENNE" 3 Kryvozhiska Street Dnipropetrovsk, 320059	494,700				2	
Total				3,549,512.00	149,990.00	229,497.20		3,929,000.00


Dr. John Boright
Board Member for United States


Mr. Emil Baran
Board Member for Canada


Ambassador Martin Hallqvist
Board Member for Sweden

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