

 **SCIENCE &
TECHNOLOGY DAYS**
POLAND – EAST
2nd Forum

April 22-24, 2009 Białystok-Białowieża

**HEALTH • ICT • ENVIRONMENT and ECO-ENERGY • NMP •
TRANSREGIONAL CO-OPERATION**

Forum Catalogue

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This Catalogue chronicles the proposals of the
2nd Forum Science and Technology Days Poland-East

organised by the
Innovative Eastern Poland Association
International Innovation Centre of East (IICoE)
Poland

This Catalogue was worked out
on the basis of materials
submitted to conference organisers.

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Welcome to the
2nd Forum Science and Technology Days Poland - East

Dear Participants,

On behalf of the organizers I have the honour to welcome all participants of the **2nd Science and Technology Days Poland- East** taking place in Białystok and Białowieża April 22-24, 2009.

The 2nd Forum Science and Technology Days Poland-East aims at expanding the international co-operation between Polish and European B+R teams and enterprises focusing on areas of: ICT, Eco-Energy, Environment, Health, New Materials and Processes (NMP) and Transregional Co-operation with Eastern Europe partners, particularly from Ukraine and Belarus.

Forum is meant to facilitate the launching of economic ventures based on the transfer of new technologies and corporate solutions and to prepare common ideas concerning projects being presently in progress (including 7.PR, EUREKA, Regional and Cross Border Cooperation Programmes).

The Forum will host:

1. Scientific and technological sessions on selected issues regarding co-operational possibilities in European programs being presently in progress, concerning ICT, Eco-Energy, Environment, Health, NMP and Transregional Co-operation issues.
2. Brokerage Event aimed at genuine cooperation on selected issues and technology transfer (organised in collaboration with the EUREKA initiative and Enterprise Europe Network). Brokerage Event will consist of workshops, poster sessions and individual meetings, presenting possibilities of commercialisation of the solutions, but also possibilities of co-operation on new projects. Organizers will help with individual meetings arrangement.

The Opening Session will take place at the NOT Conference Room in Białystok. The workshops, poster sessions and individual meetings - at the Żubrówka Hotel in Białowieża.

Białowieża is located in Podlasie Region, in the hearth of Białowieża Primeval Forest, which is also known as the Green Lungs of Poland. It is a unique place on the frontier of various cultures and religions, surrounded by the primeval nature. Żubrówka Hotel is situated at the outskirts of the Białowieża National Park – the only naturalistic place in Poland which is mentioned in the UNESCO World Culture Inheritance List.

We sincerely hope that attendance at the **2nd Science and Technology Days Poland-East** will be a fruitful, enjoyable and memorable experience for all participants

Wacław J. Białkowski
Chairman of the FORUM

Organisers:

- Innovative Eastern Poland Association *International Innovation Centre of East (IICoE)*
- Warsaw University of Technology
- Białystok Technical University
- Science and Technology Park Poland- East in Suwalki
- The Council of The Polish Federation of Engineering Associations – NOT Białystok
- National Contact Point for Research Programmes of the EU (KPK)
- Polish Chamber of Commerce for Electronics and Telecommunications (KIGEiT)
- Lviv Centre for Scientific Technical and Economic Information (LvCSTEI)
- Republican Centre for Technology Transfer in Minsk (RCTT), Belarus

Program and Organising Committee:

- Wacław J. Białkowski (International Innovation Centre of East) – *chairman*
- Urszula Kaplińska (International Innovation Centre of East)
- Ivan Kulchytsky (Lviv Centre for Scientific Technical and Economic Information) – *co-chairman*
- Irma Pęciak (Polish Agency of Enterprise Development)
- Wojciech Samulowski (Enterprise Europe Network)
- dr Jerzy Supel (National Contact Point for Research Programmes of the EU)
- Adam Doliński (Warsaw University of Technology)
- Jerzy Tokarski (National Centre for Research and Development – EUREKA Initiative)
- dr Alexander Uspenskiy (Republican Centre of Technology Transfer – Minsk, Belarus)
- Stanisław Kurak (Science and Technology Park Poland- East in Suwalki)
- Andrzej Kaźmierowski (Warsaw University of Technology)

Advisory Committee:

- prof. Jan Szmidt (Warsaw University of Technology)
- prof. Tadeusz Kulik (Warsaw University of Technology)
- prof. Szczepan Figiel (University of Warmia and Mazury)
- prof. Stanisław Mitura (Technical University of Lodz)
- Mikołaj Tomulewicz (Institute of Cosmetology and Health Care in Białystok)
- prof. Vladimir Ponariadov (Belarusian State University)

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POLAND – EAST
2nd Forum

22-24.04. 2009 Białystok-Białowieża
HEALTH • ICT • ENVIRONMENT and ECO-ENERGY • NMP •
TRANSREGIONAL CO-OPERATION

Forum Programme

Wednesday, April 22
Białystok, Dom Technika NOT

- 10.30 Forum Opening with participation of Honorary Guests (*Ministry of Science and Higher Education, Ministry of Economy, Ministry of Regional Development, Polish Agency for Enterprise Development, The City Major of Białystok, The Marshall of the Podlaskie Voivodeship*)

Plenary Session I

- 11.00 The Eastern Partnership – new challenges and possibilities of cooperation with Eastern Europe countries (*Ministry of Science and Higher Education, National Contact Point for Research Programmes of the EU*)
- 11.30 Possibilities of cooperation of Poland and EU with Eastern Europe countries in the area of Knowledge Based Economy – experiences and future
- *Ministry of Science and Higher Education*
- *National Contact Point for Research Programmes of the EU*
- *National Centre for Research and Development – EUREKA Initiative*
- 12.30 Cooperation with Poland – how to explore potentials and new possibilities - view from East
- *Ukraine (Lviv Center for Scientific, Technical and Economic Information, Embassy of Ukraine)*
- *Belarus – Republican Centre for Technology Transfer in Minsk, Embassy of Belarus*
- 13.15 Lunch
14. 00 **Departure from Białystok to Białowieża**

Wednesday, April 22

Białowieża, Żubrówka Hotel

15.30 **Accommodation at the Żubrówka Hotel**

Plenary Session II

16.30 Possibilities of transregional cooperation within European Programmes 2007-2013 (*Elżbieta Książek – Poznan Science and Technology Park*)

17.00 Workshop – Transregional Co-operation

1. **The development of innovative academic entrepreneurship as a source in growth of economy innovation on the example of Moscow State University** – Michał Borowy - Warsaw University of Life Sciences-SGGW (Poland) – **TCo 102**
2. **MNT-ERA.NET Transnational R&D Cooperation Opportunities** – Piotr Dumania – Institute of Electron Technology (Poland) – **TCo 101**
3. **International Virtual Business Innovation Incubator** – Krzysztof Zasiadły - Innovative Eastern Poland Association (Poland) – **TCo 112**
4. **Medical Cluster of Eastern Poland - animator of innovation and with countries of East Europe in biomedical engineering cooperation** – Wacław Julian Białkowski – Innovative Eastern Poland Association (Poland) – **TCo 106**
5. **Transborder cooperation in the context of integration of Ukraine in European social space** - Halina Scherba - Lviv National University named Ivan Franko (Ukraine) – **TCo 108**

18.00 Poster Session – Transregional Co-operation

1. **Innovative approach to corporate social responsibility as a factor of increased competitiveness of enterprises** – Olexandr Babich - Zaporizhzhya National Technical University (Ukraine)- **TCo 115**
2. **The development of innovative academic entrepreneurship as a source in growth of economy innovation on the example of Moscow State University** – Michał Borowy - Warsaw University of Life Sciences-SGGW (Poland) – **TCo 102**
3. **MNT-ERA.NET Transnational R&D Cooperation Opportunities** – Piotr Dumania – Institute of Electron Technology (Poland)- **TCo 101**
4. **A new method of globoidal transmission's manufacturing** – Ihor Hrytsay - Lviv Polytechnic National University (Ukraine) – **TCo 103**
5. **Municipal Development's Modeling System "City For Future" European Environmental Network - as Solution for Mutual Undersatnding** – Olena Ivanova - Research-and-Production Company "GRIS" LTD (RPC "GRIS" LTD) (Ukraine) – **TCo 114**

6. **Logistic Management of Transregional Co-operation** – Yewhen Krykawskyy - National University “Lvivska Politechnika” (Ukraine) – **TCo 111**
7. **The preparation of international projects on maintenance of the cooperation between Poland and Ukrainian organizations in the sphere of science and innovations** – Ivan Kulchytskyy - Lviv Centre for Scientific Technical and Economic Information (Ukraine) – **TCo 110**
8. **The organisation of work of technological brokers for a transfer of technology and contact to the European reley – centres** – Emma Kuzhell - State Centre of Scientific and Engineering information (Ukraine) – **TCo 109**
9. **Creation of the virtual innovative student's centre** – Valeriy Loginov - Odesa Regional Institute of Public Administration, National Academy of Public Administration Office of the President of Ukraine (Ukraine) – **TCo 107**
10. **Support actions for international R&D cooperation on bi-lateral and multilateral level in Environment, Energy, ICT, Nanotechnologies** – Olga Meerovskaya - Belsrusian Institute of System Analysis and Information Support of Scientific and Technical Sphere (Belarus) – **TCo 105**
11. **Transborder cooperation in the context of integration of Ukraine in European social space** – Halyna Shcherba - Lviv National University named Ivan Franko (Ukraine) – **TCo 108**
12. **Sociological providing of Innovative Technologies Projects** – Viyaleta Shukhatovich - The Institute of sociology of the National Academy of Sciences (Belarus) – **TCo 104**
13. **Investment opportunities in Ukraine** – Dymytro Tychynskyy - Agency "New Delo" (Ukraine) – **TCo 113**
14. **International Virtual Business Innovation Incubator** – Krzysztof Zasiadły - Innovative Eastern Poland Association (Poland) – **TCo 112**
15. **Medical Cluster of Eastern Poland - animator of innovation and with countries of East Europe in biomedical engineering cooperation** – Wacław Julian Białkowski - Innovative Eastern Poland Association (Poland)- **TCo 106**

20. 00

Forum Dinner

Thursday, April 23,

Białowieża, Żubrówka Hotel

9.30-13.00

Workshop I - ICT, Poster Session I, Individual meetings

1. **Therapeutic and diagnostic devices based on very high frequency and extremely low intensity electromagnetic radiation** – Augustyn Chwaleba, Jan Szczurko - Military University of Technology (Poland) - **ICT 14**
2. **Antistressor action of millimeter-wave electromagnetic radiation of extremely low intensity** - Augustyn Chwaleba, Jan Szczurko - Military University of Technology (Poland) - **ICT 15**
3. **Micro and Nanosystems in Chemistry and Medical Diagnostics** – Piotr Dumania – Institute of Electron Technology (Poland) – **ICT 07**
4. **Interoperability – key issue of the health information systems** – Vsevolod Kachmar - Eleks Ltd (Ukraine) – **ICT 09**
5. **Therapeutic and diagnostic devices based on encephalographic frequencies programmed low intensity photostimulation on visual Receptors** – Oleksandr Kozhukhar - National University "Lvivska Politechnica" (Ukraine) – **ICT 17**
6. **OSOZ – (unique healthcare system)** – Rafał Koziół, Kinga Sokołowska – The Medicine of Poland Southern – East Cluster Tarnow (Poland) – **ICT 10**
7. **Electroforming-based mounting: a new technology for the manufacturing of devices for communication and navigation systems** – El'vira Kozlenko - Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine (Ukraine) – **ICT 04**
8. **Tree- Teleradiology for Eastern Europe** – Jacek Liszka - VOXEL S.A. (Poland) – **ICT 11**
9. **Creation of electronic system of exchange of medical information** – Vitaliy Ostashko - State Clinical Scientific-Practical Telemedicine Center of the Ukrainian Ministry of Health (Ukraine) – **ICT 19**
10. **Flexible telecommunication system for home and industrial automation control** – Sviatoslav Paliy, Oleh Paliy - Scientific-production firm "Isto" (Ukraine) – **ICT 05**
11. **Systems IT instilled and working in many branches of the Polish economy: cares of health, energetics, agricultures, communal, telecommunication** – Andrzej Sobolewski - ABG S.A. (Poland) - **ICT 02**
12. **Electrical Capacitance Tomograph** – Roman Szabatin - Faculty of Electronics and Information Technology (Poland) – **ICT 12**

13. **Device and technology for determination of individual sensitivity of human skin to irradiation** – Petro Smertenko – EUREKA (Ukraine) – **ICT 03**
14. **Hardware/software system and new diagnostic technologies for the study of homeostasis mechanisms** – Volodymyr Kamkov - Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine (Ukraine) – **ICT 16**

Poster Session II- ICT

1. **Therapeutic and diagnostic devices based on very high frequency and extremely low intensity electromagnetic radiation** – Augustyn Chwaleba, Jan Szczurko - Military University of Technology (Poland) – **ICT 14**
2. **Antistressor action of millimeter-wave electromagnetic radiation of extremely low intensity** - Augustyn Chwaleba, Jan Szczurko - Military University of Technology (Poland)- **ICT 15**
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4. **Interoperability – key issue of the health information systems** – Vsevolod Kachmar - Eleks Ltd (Ukraine)- **ICT 09**
5. **Optoelectronic information and energy management system of traffic lights and traffic** – Serhiy Kostyuk – ALFAMETRIC (Ukraine) - **ICT 18**
6. **Therapeutic and diagnostic devices based on encephalographic frequencies programmed low intensity photostimulation on visual Receptors** – Oleksandr Kozhukhar - National University "Lvivska Politechnica" (Ukraine)- **ICT 17**
7. **OSOZ – (unique healthcare system)** – Rafał Kozioł, Kinga Sokołowska – The Medicine of Poland Southern – East Cluster Tarnow (Poland) – **ICT 10**
8. **Electroforming-based mounting: a new technology for the manufacturing of devices for communication and navigation systems** – El'vira Kozlenko - Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine (Ukraine)- **ICT 04**
9. **Teleradiology network within Polish-Ukrainian transboundary cooperation** – Antin Kushnir - MEDITECH Ltd. (Ukraine)- **ICT 08**
10. **Tree- Teleradiology for Eastern Europe** – Jacek Liszka - VOXEL S.A. (Poland) – **ICT11**
11. **Creation of electronic system of exchange of medical information** – Vitaliy Ostashko - State Clinical Scientific-Practical Telemedicine Center of the Ukrainian Ministry of Health (Ukraine)- **ICT 19**

12. **Flexible telecommunication system for home and industrial automation control** – Oleh Paliy - Scientific-production firm "Isto" (Ukraine)- **ICT 05**
13. **Information Computer Technologies of Vinnytsya (City Administration System)** – Olexandr Ryzhenko - Vinnytsya City Council (Ukraine)- **ICT 13**
14. **Systems IT instilled and working in many branches of the Polish economy: cares of health, energetics, agricultures, communal, telecommunication** – Andrzej Sobolewski - ABG S.A. (Poland)- **ICT 02**
15. **Electrical Capacitance Tomograph** – Roman Szabatın - Faculty of Electronics and Information Technology (Poland)- **ICT 12**
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9.30-13.00

Workshop II - NMP, Poster Session II, Individual meetings

1. **A New PVD-CVD Method of Deposition DLC Coatings on Medical Implants** – Mikalai Chekan - PLASMOTEG Engineering Centre of the Physical Technical Institute (Belarus) - **NMP 38**
2. **The new materials for the decoration of ceramic tiles and glass** – Danuta Chmielewska - The Institute of Glass, Ceramics, Refractory and construction Materials (Poland) – **NMP 29**
3. **Spontaneous forming of billets under pressworking** – Vladimir Dragobetsky - Kremenchuk Mykhaylo Ostrogradskiy State Polytechnic Universit (Poland) - **NMP 27**
4. **Theoretical approaches to development of technologies, equipment and the tools for applied medicine based on physical principles** – Igor Khudetsky - E. O. Paton Electric Welding Institute of the NAS of Ukraine (Ukraine) – **NMP 28**
5. **Structure and physical properties of Fe - BASED SC Sm(Y,La)-Fe-Bi(Sb)-O SYSTEMS** – Siarhei Lebedzeu - Scientific-practical materials research centre institute of solid state physics and semiconductors National academy of sciences of Belarus (Belarus) – **NMP 30**
6. **Development and demonstration of technologies of composite cellular materials for energy, environment protection and medicine applications** – Vitali Mikutski - Powder Metallurgy Institute (PMI), National Academy of Sciences of Belarus (Belarus) – **NMP 32**

7. **Composition of Iodine - Containing Biologically Active Nutrients and Drugs** – Liliya Nadolnik - Institute of Pharmacology and Biochemistry of National Academy of Sciences of Belarus (Belarus) – **NMP 34**
8. **Laboratory Test of Functional Degradation of Materials in Restorative Dentistry** – Agata Niewczas - Department of Conservative Dentistry, Medical University of Lublin (Poland) - **NMP 37**
9. **Processing, modelling and performance of La₂NiO₄ - based ceramic membranes** – Vladimir Pankov - Belarusian State University (Belarus) – **NMP 35**
10. **Cellulose fibres insulation** – Małgorzata Bąk – EcoService (Poland) – **NMP 26**

Poster Session III – New Materials and Processes

1. **A New PVD-CVD Method of Deposition DLC Coatings on Medical Implants** – Mikalai Chekan - PLASMOTEG Engineering Centre of the Physical Technical Institute (Belarus) - **NMP 38**
2. **The new materials for the decoration of ceramic tiles and glass** – Danuta Chmielewska - The Institute of Glass, Ceramics, Refractory and construction Materials (Poland) – **NMP 29**
3. **Spontaneous forming of billets under pressworking** – Vladimir Dragobetsky - Kremenchuk Mykhaylo Ostrogradskiy State Polytechnic Universit (Poland) – **NMP 27**
4. **Theoretical approaches to development of technologies, equipment and the tools for applied medicine based on physical principles** – Igor Khudetsky - E. O. Paton Electric Welding Institute of the NAS of Ukraine (Ukraine)- **NMP 28**
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6. **Surface plasmon resonance (SPR) portable sensors** – Igor Voitovych - Glushkov Institute of Cybernetics NAS of Ukraine (Ukraine)- **NMP 31**
7. **Development and demonstration of technologies of composite cellular materials for energy, environment protection and medicine applications** – Vitali Mikutski - Powder Metallurgy Institute (PMI), National Academy of Sciences of Belarus (Belarus)- **NMP 32**
8. **DEVELOPMENT OF THE SELECTIVE COATING FOR THE SOLAR COLLECTORS** – Rostyslav Musiy - Department of Physical Chemistry Institute of Physical Organic Chemistry NAS of Ukraine (Ukraine)- **NMP 33**
9. **Composition of Iodine - Containing Biologically Active Nutrients and Drugs** – Liliya Nadolnik - Institute of Pharmacology and Biochemistry of National Academy of Sciences of Belarus (Belarus) – **NMP 34**

10. **Laboratory Test of Functional Degradation of Materials in Restorative Dentistry** – Agata Niewczas - Department of Conservative Dentistry, Medical University of Lublin (Poland)- **NMP 37**
11. **Processing, modelling and performance of La₂NiO₄ - based ceramic membranes** – Vladimir Pankov - Belarusian State University (Belarus) – **NMP 35**
12. **High-Strength And Corrosion-Resistant Materials And Products Based On Polymer-Modified Wood For Application In Building And Furniture Industries** – Sergii Pugach - National Science Center "Kharkov Institute of Physics and Technology" (Ukraine)- **NMP 36**
13. **Roman cement new product on the Historical Restoration market** – Grzegorz Adamski - The Institute of Glass, Ceramics, Refractory and construction Materials (Poland) – **NMP 39**
14. **Cellulose fibres insulation** – Małgorzata Bąk – EcoService (Poland) - **NMP 26**

13. 00 Lunch

14. 00-17.30 Workshop III - Health, Poster Session III, Individual meetings

1. **Grid in medicine. Telemedicine. Telecommunication. Medical information data systems** – Volodymyr Avramenko - International Clinic of Rechabilitation (Ukraine) – **HEA 59**
2. **Highly sensitive non-invasive imaging and analysis technology for early diagnosis of heart diseases** – Illya Chaikovsky - Glushkov Institute of Cybernetics NAS of Ukraine (Ukraine) – **HEA 58**
3. **Juvenile pregnancy as a sociomedical problem. Actual for Eastern Europe** – Natalia Chvorik - Grodno Medical State University/ Department of obstetric and gynecology (Belarus) – **HEA 55**
4. **Utilization of probiotic bacteria for development of raw fermented meat products** – Zbigniew Dolatowski, Danuta Kolozyn – Krajewska - University of Life Science in Lublin (Poland) – **HEA 68**
5. **Equipment for Pressurized Planar Electrochromatography** – Tadeusz Dzido - Medical University of Lublin (Poland) – **HEA 65**
6. **Biomechanical researches of sports movements and walking efficiency of people with locomotorium's dysfunction** – Mikhail Ihnatouski – The State Scientific Institution "The Research Center of Resources Saving Problems of The National Academy of Science of Belarus" (Belarus) – **HEA 57**
7. **The cooperation project between the Institute of Cosmetology and Health Care in Białystok (Białystok, Poland) and the Lithuanian Academy of Physical Education (Kaunas, Lithuania)** – Ewa Kleszczewska - The Institute of Cosmetology and Health Care in Białystok (Poland) - **HEA 66**

8. **The cooperation project between the Institute of Cosmetology and Health Care in Białystok (Białystok, Poland) and other academic institutions and companies, designed to enable the transfer of knowledge** – Ewa Kleszczewska - The Institute of Cosmetology and Health Care in Białystok (Poland) - **HEA 67**
9. **Development of GP (general practice) in the context of primary health care** – Hanna Lysenko - State Education Establishment "Belarusian Medical Academy of Post-Graduate Education" (Belarus) – **HEA 54**
10. **Laboratory on Biological Testing of Chemical Compound, Drugs and Bionanostructures** – Liliya Nadolnik - Institute of Pharmacology and Biochemistry of National Academy of Sciences of Belarus (Belarus) – **HEA 56**
11. **Biologically active compounds of probiotic bacteria and their use in biotechnology and medicine** – Galina Novik - Institute of Microbiology of Belarus National Academy of Sciences (Belarus) – **HEA 53**
12. **The comparative characteristic of physical development, physical activity, structure of actual nutrition and media consumption of the pupils of primary schools in Grodno, Kaunas and Krasnoyarsk** – Swiatlana Palubinskaya - Yanka Kupala Grodno State University/ Department of Sport and Rechabilitation (Belarus) – **HEA 62**
13. **MINSTREL (Medical Interregional Storage and Resource Locator)** – Marek Pilch- Kowalczyk - ALTERIS SP. Z O.O. (Poland) – **HEA 64**
14. **Monitoring of formation of focused on health behaviour of student's youth of high schools in Grodno and Białystok. Comparative aspect** – Andrei Shpakov - Yanka Kupala Grodno State University/ Department of Sport Medicine (Belarus) – **HEA 61**
15. **Features of the lifestyle and health of women 45-60 years in Grodno, Białystok and Krasnoyarsk** – Natalia Shpakova - Yanka Kupala Grodno State University/ Faculty of Physical Culture (Belarus) – **HEA 60**
16. **The Medicine of Poland Southern - East Cluster - initiator of innovations in healthcare** – Kinga Sokołowska - The Medicine of Poland Southern- East Cluster Tarnow (Poland) – **HEA 69**
17. **Comparative characterization of dynamic changes of physical activity of future teachers of the physical culture in universities in Grodno and Białystok** – Anzhalika Sukhava - Yanka Kupala Grodno State University/ Department of Sport and Rechabilitation (Belarus) – **HEA 63**
18. **Development of procedures and the adaptation of the RAMED EXPERT hardware/software system to triggering immune responses in the human body** – Anatoly Yatsunienko - Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine (Ukraine) – **HEA 52**

19. **Radically new medical technology for assessing and correcting the human functional condition** – Anatoly Yatsunienko - Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine (Ukraine) – **HEA 70**
20. **New noninvasive medical technology for treatment of diabetes** – Anatoly Yatsunienko - Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine (Ukraine) – **HEA 71**

Poster Session III – Health

1. **Grid in medicine. Telemedicine. Telecommunication. Medical information data systems** – Volodymyr Avramenko - International Clinic of Rechabilitation (Ukraine) – **HEA 59**
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11. **Biologically active compounds of probiotic bacteria and their use in biotechnology and medicine** – Galina Novik - Institute of Microbiology of Belarus National Academy of Sciences (Belarus) - **HEA 53**
12. **European health care standards expansion to Ukraine** – Olga Paliy - Railway Clinical Hospital (Ukraine) – **HEA 51**
13. **The comparative characteristic of physical development, physical activity, structure of actual nutrition and media consumption of the pupils of primary schools in Grodno, Kaunas and Krasnoyarsk** – Swiatlana Palubinskaya - Yanka Kupala Grodno State University/ Department of Sport and Rechabilitation (Belarus) – **HEA 62**
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18. **Comparative characterization of dynamic changes of physical activity of future teachers of the physical culture in universities in Grodno and Bialystok** – Anzhalika Sukhava - Yanka Kupala Grodno State University/ Department of Sport and Rechabilitation (Belarus) – **HEA 63**
19. **Development of procedures and the adaptation of the RAMED EXPERT hardware/software system to triggering immune responses in the human body** – Anatoly Yatsunienko - Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine (Ukraine) – **HEA 52**
20. **Radically new medical technology for assessing and correcting the human functional condition** – Anatoly Yatsunienko - Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine (Ukraine) – **HEA 70**
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1. **Technology "System BS"= passove alternative energy** – Jerzy Busłowicz – BUSICO (Poland) – **ENV 78**

2. **Virtual Organization for Energy Problems Solving in European GRID** – Oleksandr Chemerys - Institute for modelling in energy engineering, National Academy of Sciences of Ukraine (Ukraine) – **ENV 91**
3. **Perspective mechanisms of cooperation in sphere of the sustainable development maintenance** – Viacheslav Dovbenko - Lviv National Polytechnic University (Ukraine) – **ENV 88**
4. **Replacement of fossil fuels by forestry and agricultural residue in pyrometallurgy** – Iryna Fedorenko - Physical and Technological Institute of Metals and Alloys of National Academy of Sciences of Ukraine (Ukraine) – **ENV 87**
5. **Potential, utilization and cultivation of energy crops like renewable energy source in eastern Europe** – Kajetan Kościk - University of Life Sciences in Lublin, Faculty of Agricultural Sciences in Zamosc (Poland) – **ENV 84**
6. **Sociology as an instrument of providing sustainable development** – Svetlana Kroitor - The Institute of sociology of the National Academy of Sciences (Belarus) – **ENV 83**
7. **The Nature Protection and Energy Saving Aspects of the green-blue algae utilization** – Mykhaylo Zagirnyak, Volodymyr Nykyforov - Kremenchuk Mykhaylo Ostrogradskiy State Polytechnic University (Ukraine) – **ENV 76**
8. **Gyro-Wheel Wave Electric Power Plant (GW2EP2)** – Mykola Ageienko, Yulian Protsan - Alliance NEW ENERGY of UKRAINE, Dnipropetrovsk Office (Ukraine) – **ENV 82**
9. **Intensification of the fermentation of waste in biogas plants by electromagnetic stimulation of methane-producing bacteria** – Andriy Ryzhkov - Tavria State Agrotechnological University (Ukraine) – **ENV 77**
10. **Environmentally Friendly Technology Of Crops Cultivation** – Dmytro Piza - Zaporizhzhya National Technical University (Ukraine) – **ENV 79**

Poster Session IV - Eco-Energy and Environment

1. **Technology "System BS"= passove alternative energy** – Jerzy Busłowicz – BUSICO (Poland)- **ENV 78**
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5. **Energysaving technologies for small and middle business developed by Gas Institute of National Academy of Sciences of Ukraine** – Alexander Khovavko - Gas Institute of National Academy of Science of Ukraine (Ukraine) – **ENV 80**
6. **Potential, utilization and cultivation of energy crops like renewable energy source in eastern Europe** – Kajetan Kościk - University of Life Sciences in Lublin, Faculty of Agricultural Sciences in Zamosc (Poland) – **ENV 84**
7. **Sociology as an instrument of providing sustainable development** – Svetlana Kroitor - The Institute of sociology of the National Academy of Sciences (Belarus) – **ENV 83**
8. **“Ecological Building. Implementation of energy effective building technologies and methods** – Mykhaylo Lishchynskyy, Stepan Syvyk – OBRIY (Ukraine)- **ENV 86**
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14. **Modeling of diffusion processes of vehicular air pollutions** – Mykola Dyvak, Andriy Pukas - Ternopil National Economic University (Ukraine) – **ENV 92**
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19.00 Forum dinner

Friday, April 24,

Białowieża, Żubrówka Hotel

9.00–12.30 Individual meetings

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ID no: ICT 01

| | | | |
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| Title of Project | | | |
| Name of Institution and adress | The Ukrainian Academy of Printing UKRAINE; 79020 Lviv, Pid Holoskom Str. 19 | | |
| Type of institution | University | | |
| Institution profile | <p><i>We are working in the following directions:</i> <i>ICT:</i></p> <ul style="list-style-type: none"> • Improving of the electronic and traditional publishing house technologies. • Digital signature, search and identification of the electronic documents. • Optimization of the graphical interface of the electronic editions. • Working out of the computer fonts and types. • Problems solving of the total control images reproduction in preprinting systems. • Compression and storing of the graphical images. • Optimization of the computer networks of printing and publishing enterprises. • Intellectual systems of the decision making in the resource management. • Mathematic modelling of applied tasks in mechanics. • Optimization of computer technologies processes in printing and publishing. • Research of models and algorithms of text and graphic information processing. • Digital processing of the information in the applied arts. • Investigation of the directions to improve the technology of the prepress. • Metrology, standardization and qualimetry in the prepress. • Design of the algorithms and software for the coding of the bonds. • Modelling, analysis and synthesis of the technological processes and systems based on the information technologies. • Algorithms of the information technologies and systems. • Developments of the functioning algorithms, analysis and synthesis of the printing houses digital control systems. • Typological analysis and synthesis of the digital publishing systems. • Mathematical support and information technologies in printing. • Technological and metrological basis for automated control of the dimensions of printed and semi-finished items. • Design of the automated systems of quality control in printing industry. • Development of an automated editor of chemistry formula for digital publishing systems. • Design of the microprocessor tools used for automation of digital printing technologies. • Design of neural network information technologies to protect the images on securities. <p><i>New materials:</i></p> <ul style="list-style-type: none"> • Synthesis of the new photo initiators and monomers for the UV polymerization in the thin layers and polymeric matrixes. • Photo adhesives. • Photo polymeric materials for the stencil printing. • Improving of the technological processes and materials of the flexography printing. • Preserving and restoration of printed editions. • Processes and plate materials design for different printing techniques. • Developing of the materials for printing and finishing production. • Developing of the materials and technologies of old prints preserving and restoration. • Improving and development of the processes for different printing methods, finishing production and book design. | | |
| Main subject of activity | KEY WORDS | | |
| | Research | Education | |
| Project desription | | | |
| Stage of project | | | |
| Type of sought partner | | | |
| The area of expertise | | | |
| Contact person | Forename and surname | VOLODYMYR MAYIK | |
| | Contact details | Ukraine, 79020 Lviv, Pid Holoskom Str. 19 Tel./Fax +38 032 2422340; +38 032 2422341; +38 032 2529620 www.uad.lviv.ua ; vol_maik@rambler.ru ; o.chorna@mail.ru | |

ID no: ICT 02

| | | | |
|--|---|--|--|
| Title of Project | <i>Systems IT instilled and working in many branches of the Polish economy: cares of health, energetics, agricultures, communal, telecommunication.</i> | | |
| Name of Institution and address | ABG S.A. POLAND; 02-017 Warszawa, Al. Jerozolimskie 123 A | | |
| Type of institution | Other: (IT software house, IT solutions provider) | | |
| Institution profile | <p>We are one of the leading companies specializing in the production of custom-made software¹. We are a leading supplier of IT solutions for public administration¹, telecommunication and media¹, and agriculture^{1/2}. Our complex offering includes IT solutions which are tailored to the individual needs of the Clients representing all basic sectors of the economy.</p> <p>As the only company in CEE, ABG develops projects directly for international agencies - the European Union and NATO institutions in Belgium, Portugal, the US and Great Britain. We pursue pre-and post- accession programs with the utilization of the European structural funds, e.g. through the deployment of the Integrated Administration and Control System (IACS) in Poland and Romania.</p> <p>We possess unique competencies in the development of the so-called critical systems, i.e. the ones which require very high IT environment availability rate.</p> <p>¹ Ranked number one in the Teleinfo 500 ranking, July 2008 ² Ranked number one in Computerworld Top 200, June 2008</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Software house | IT solutions provider | |
| Project description | <p>Technologies:</p> <ul style="list-style-type: none"> ▪ UML (Unified Modeling Language) ▪ Java ▪ JEE (Java Enterprise Edition) ▪ C++ ▪ LDAP (Lightweight Directory Access Protocol) ▪ XML (Extensible Markup Language) ▪ Oracle RDBMS (Relational Database Management System) ▪ SOA (Service Oriented Architecture) | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | Public Administration Large Industry | | |
| The area of expertise | <p>We are one of the leading companies specializing in the production of custom-made software¹. We are a leading supplier of IT solutions for public administration¹, telecommunication and media¹, and agriculture^{1/2}. Our complex offering includes IT solutions which are tailored to the individual needs of the Clients representing all basic sectors of the economy.</p> <p>As the only company in CEE, ABG develops projects directly for international agencies - the European Union and NATO institutions in Belgium, Portugal, the US and Great Britain. We pursue pre-and post- accession programs with the utilization of the European structural funds, e.g. through the deployment of the Integrated Administration and Control System (IACS) in Poland and Romania.</p> <p>We possess unique competencies in the development of the so-called critical systems, i.e. the ones which require very high IT environment availability rate.</p> <p>¹ Ranked number one in the Teleinfo 500 ranking, July 2008 ² Ranked number one in Computerworld Top 200, June 2008</p> | | |
| Contact person | Forename and surname | ANDRZEJ SOBOLEWSKI | |
| | Contact details | Tel./Fax +48 022 6077200; +48 022 6077100 a.sobolewski@abg.com.pl ; www.abg.com.pl | |

ID no: ICT 03

| | | | |
|--|--|--|-------------------|
| Title of Project | <i>Device and technology for determination of individual sensitivity of human skin to irradiation.</i> | | |
| Name of Institution and address | JSC MERYDIAN UKRAINE; 03680 Kyiv, I.Lepse Blvd. 8 | | |
| Type of institution | Large Industry | | |
| Institution profile | <p>The radiomeasuring and electric equipment (electronic frequency counters, alyzers of a spectrum, generators and synthesizers of frequencies, devices of ergy meters, complete sets of the testing equipment, mobile laboratories of asuring technics, power supplies);</p> <p>Devices for monitoring of an environment (anemometers, radiometers);</p> <p>The consumer goods (radio receivers, stereoamplifiers, induction oven, heaters, electrode boilers, dryers for clothes);</p> <p>Devices for information technologies (Mause personalises and readers BIK unequivocal identification and autentification the user of computer technics).</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Electronics production | R&D in electronics | Ecology equipment |
| Project description | <p>In this project we propose to develop the technology and equipment for evaluation of individual sensitivity to UV irradiation of human and animal skin. There are the following tasks of our activity: 1) development of approach and equipment for evaluation of factor of individual UV irradiation sensitivity of human and animal skin and body; 2) development of evaluation techniques for stimulating influence on melanin synthesis which has radioprotection properties for prevention of DNA damage and epidermis cell apoptosis and cause of carcinogenesis; 3) development of medical and nonmedical techniques for correction of changed reactions of self-regulation and self-organization of alive system under damage action of UV irradiation. The project results will allow to evaluate the UV irradiation influence taken into account the individual sensitivity of human and animal skin and body, prevent the expansion of pathological processes and, if it is necessary, make adequate correction in time.</p> | | |
| Stage of project | Feasibility study | | |
| Type of sought partner | Research Institute | | |
| The area of expertise | Experience in dermatology and solarium exploitation | | |
| Contact person | Forename and surname | PETRO SMERTENKO | |
| | Contact details | Ukraine; 03680 Kyiv, I.Lepse Blvd. 8 Tel. +38 044 4541156; Fax +38 044 4541346 eureka@merydian.kiev.ua ; smertenko@isp.kiev.ua | |

ID no: **ICT 04**

| | | | |
|--|--|--|----------------------|
| Title of Project | <i>Electroforming-based mounting: a new technology for the manufacturing of devices for communication and navigation systems.</i> | | |
| Name of Institution and address | Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine UKRAINE; 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 | | |
| Type of institution | Research Institute | | |
| Institution profile | Dynamics of mechanical and hydromechanical systems, launch vehicle systems, railway and motor transport; Aerothermodynamics of power plants, spacecraft, and their subsystems; Strength, reliability and optimization of the mechanical systems, launchers, and spacecraft; Mechanics of the interaction of a rigid body with ionized media and electromagnetic radiation; Systems analysis of the rocket-space technology development tendencies; The development of proposals for the Ukraine's National Space Program and other program documents on the rocket and space technology; Analysis of advanced rocket and space systems and their operation; Expertise of Space Programs and Projects, analysis of rocket and space technology tests results; technico-economic background of Space Programs. | | |
| Main subject of activity | KEY WORDS | | |
| | Background of Space Programs | Medicine | Microwave techniques |
| Project description | The basic requirements for modern communication and navigation facilities are small size, light weight, low cost, maximum strength and high reliability. While it is a relatively simple matter to meet the first two requirements by using hybrid integration technology, meeting the other requirements involves a complex of highly complicated scientific and engineering problems. In this regard the proposed quasi-integration technology for the manufacturing of microwave communication and navigation facilities by multilayer electroforming deserves close attention. | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | Research Institute | | |
| The area of expertise | Radiophysics Electronics Medicine Microwave techniques | | |
| Contact person | Forename and surname | EL'VIRA KOZLENKO | |
| | Contact details | Ukraine; 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 Tel./Fax: +38 056 3720639; +38 056 7135341 ramed@ukr.net ; www.itm.dp.ua | |

ID no: **ICT 05**

| | | | |
|---------------------------------------|--|---|--------------------|
| Title of Project | <i>Flexible telecommunication system for home and industrial automation control.</i> | | |
| Name of Institution and adress | Scientific-production firm "Isto" UKRAINE; 79018 Lviv, Storozhenko Str. 30 | | |
| Type of institution | SME | | |
| Institution profile | Main company profile includes CAD/CAM systems applications, computer network design, industrial automation design, software design, web-design. | | |
| Main subject of activity | KEY WORDS | | |
| | Computer Aided Design | Computer Networks | Telecommunications |
| Project desription | Provide modern and efficient way to remote monitor and control of heating, cooling, water control systems and other home or industrial automation setup. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Research Institute Consultancy Large Industry SME | | |
| The area of expertise | Industrial electronics design and manufacture. Consumer electronics design and manufacture. Remote process control. Telecommunications. | | |
| Contact person | Forename and surname | OLEH PALIY | |
| | Contact details | Ukraine; 79018 Lviv, Storozhenko Str. 30 Tel./Fax +38 032 2403389 opalij@isto.lviv.ua ; www.isto.lviv.ua | |

ID no: ICT 07

| | | | |
|---------------------------------------|---|--|------|
| Title of Project | <i>Micro - and Nanosystems in Chemistry and Medical Diagnostics.</i> | | |
| Name of Institution and adress | Institute of electron Technology POLAND; 02-668 Warszawa, Al. Lotników 32/46 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>The Institute of Electron Technology (ITE) is a major Polish research centre with the primary focus on semiconductor micro- and nanotechnology. The fundamental goal of ITE is to conduct basic and applied research in the area of microelectronics, semiconductor optoelectronics and micromechanics as well as characterzation of semiconductor materials and structures. The basic statutory activity of the Institute is financed by the Ministry of Science and Higher Education. Additional funding of research is provided on competitive basis in the form of grants for research teams and individual researchers. Also, ITE research teams actively participate in European consortia which execute projects supported by the EU Research Framework Programmes as well as in big national projects financed from Structural Funds.</p> <p>The applied research led by ITE is focused on meeting the demand of the industry for new, advanced and innovative technologies and products in the field of Information Society Technologies. ITE develops and sells market products such as devices, services and intellectual property rights to domestic and foreign customers. ITE is also involved in educational and training activities for Polish and foreign Ph.D. students and engineers. The Institute is entitled to award Ph.D. and D.Sc. degrees, both in the field of semiconductor electronics.</p> <p>Recently, ITE established two Centres of Excellence: CEPHONA (Physics and Technology of Photonic Nanostructures) and MANTARC (Micro- and Nanotechnology Applied Research Centre). Both were accepted by the Minister of Science. InSTITUTE complies with the PN-EN ISO 9001:2001 standard in the area of:</p> <ul style="list-style-type: none"> - conducting scientific studies and development work in electronics and solid-state physics, - construction design, development of micro- and nanotechnologies and production of semiconductor devices such as specialised integrated circuits, lasers, photodetectors, nuclear detectors and sensors, - research and development of measurements methods for materials, structures and semiconductor devices. | | |
| Main subject of activity | KEY WORDS | | |
| | Semiconductor electronics | Semiconductor physics | MEMS |
| Project desription | <p>The project goal is to develop a range of biomedical devices and chemical sensors:</p> <ul style="list-style-type: none"> ▪ Lab on a chip for determination of psychotropic drugs in saliva samples ▪ Diagnostic instruments for analysis of nanoliter volumes of body secretion for fertility and pathological states monitoring ▪ Diagnostic instruments for fast evaluation of bovine embryos ▪ Bio- micro-reactors for cell culture ▪ MEMS for medical diagnostic equipment ▪ Arrays of chemical sensors for detection of Gram-negative bacteria | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Large Industry SME | | |
| The area of expertise | Application of microsystems in medicine, biotechnology and chemistry | | |
| Contact person | Forename and surname | PIOTR DUMANIA | |
| | Contact details | Poland, 02-668 Warszawa, Al. Lotników 32/46 Tel./Fax +48 022 5487880; +48 022 5487882 pdumania@ite.waw.pl | |

ID no: ICT 08

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|---------------------------------------|---|---|---------------|
| Title of Project | <i>Teleradiology network within Polish-Ukrainian transboundary cooperation.</i> | | |
| Name of Institution and adress | Meditech Ltd. UKRAINE; 79007 Lviv, Ohienka Str. 14/2 | | |
| Type of institution | SME | | |
| Institution profile | <p>Meditech Ltd. established in 2006 positioning itself as a private company which supports innovative technologies in medicine. Our company is represented by a dynamic and highly professional team, capable to provide and manage specialised medical and IT service.</p> <p>Meditech provides: hospital information systems administration; remote lectures, seminars, video conferences; telemedical consultations by leading Ukrainian and International experts; international medical support and treatment abroad service.</p> <p>As an official partner to Association for Ukrainian Telemedicine and eHealth Development Meditech itself played host to the 1-st and 2-nd International Conference "Telemedicine: Myths & Reality" (www.telemed.net.ua).</p> <p>In close cooperation with TimeKontor AG (NEST manager, Germany) and financed by the German International Bureau of the Ministry of Education and Research Meditech organised the 1-st Ukrainian-German "Partnering Day" Bilateral Cooperation in Education and Reserch.</p> <p>Ongoing project on establishing of Teleradiology network with Alteris LLC, Voxel S.A. (Poland).</p> | | |
| Main subject of activity | KEY WORDS | | |
| | IT in Medicine administration | Telemedicine & eHealth | Teleradiology |
| Project desription | <p>Creating teleradiology network within Polish-Ukrainian transboundary cooperation in line with the EU guidelines, the project aims at facilitating and strengthening access to healthcare sector with special focus on radiology (Rtg, CT, MRI, PET) as well as to improve quality of medical service in the regions of the partner institutions. It will promote internal integration in its social, economic and territorial dimensions, through networking structures for highly sustainable, efficient and innovative movement of medical information and ideas via the unified network of radiology information system.</p> <p>Future partnership will support the provision of healthcare services through use of ICT and will facilitate market development through solving technical issues in their respective regions. Moreover, it shares the idea of improving direct business cooperation of SMEs with healthcare institutions to pave the way for innovations and improvements towards better medical care.</p> <p>It is foreseen the network will facilitate during the Euro-2012 Football Championship.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Consultancy SME Other: Public and private hospitals | | |
| The area of expertise | <p>Partners should be able to meet expected outputs and project's results in establishment of joint ventures between the Polish and Ukrainian participants to do business in real cooperation in the fields of telemedicine and ICT, with specific focus on teleradiology.</p> <p>Through the concrete sets of actions carried out by this project partners should ensure re-organising and re-deployment of healthcare ICT resources (mainly PACS, RIS) to be able to accept unified standard in diagnostic radiology management.</p> <p>Future established network will lead to easier process management in other modules of HIS consummation among partnering institutions.</p> | | |
| Contact person | Forename and surname | ANTIN KUSHNIR | |
| | Contact details | Ukraine; 79041 Lviv, Zyzzag Str. 5 Tel./Fax +38 032 2430055; +38 032 2995599 akushnir@meditech.com.ua | |

ID no: **ICT 09**

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|--|---|---|---------|
| Title of Project | <i>Interoperability – key issue of the health information systems.</i> | | |
| Name of Institution and address | Eleks Ltd. UKRAINE; 79060 Lviv, Naukova Str. 7G | | |
| Type of institution | SME | | |
| Institution profile | <p>ELEKS Software is an IT service and consulting company, headquartered in Lviv, Ukraine. Started in 1991, today ELEKS Software employs over 300 professionals and delivers its services to organizations all over the world. Nowadays, it has four development centers in Ukraine and a sales office in the USA. Eleks Software is a Microsoft Gold Certified Partner, IBM Business Partner, and Borland Technology Partner. The company's proven experience, talented employees and capability to deliver results of high quality allow ELEKS Software to bring tangible value to its customers' business and help them to achieve their strategic goals.</p> <p>ELEKS Software provides full-range software development services and may accompany projects at each stage of their life-cycle from design and development to testing and support. ELEKS Software offers the following services:</p> <ul style="list-style-type: none"> ▪ Software development and support ▪ Software testing and localization ▪ Web development ▪ Web design and multimedia ▪ Remote administration ▪ IT outsourcing ▪ IT consulting. <p>Own products: Medical Information System "Doctor Eleks" (http://doctor.eleks.com) and "Eleks Autonavigator", a module-based system for vehicle fleet management in the areas of logistics and passenger transportation (http://navigator.eleks.com).</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Software development | Product development | Testing |
| Project description | <p>Considering the wide diversity of eHealth systems that are emerging or are already in place in European countries eHealth interoperability within and among regional, national and European health systems became a major area of concern.</p> <p>The increasing mobility of European citizens, their growing expectations and needs together with the recent trend towards more global health markets require close collaboration of different medical institutions to better service each individual citizen. Our aim is to get together healthcare professionals, industrial representatives, national and regional authorities to foster the development and implementation of a set of guidelines on eHealth interoperability.</p> <p>Medical information system "Doctor Eleks" is developed taking into consideration DICOM and HL7 international standards of medical data transfer, which allow its integration with different diagnostic equipment and/or medical systems worldwide.</p> | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | SME | | |
| The area of expertise | <p>„Doctor Eleks" is a Medical Information System intended to provide document flow automation for medical institutions of any size and specialization. The core of the system is the Electronic Medical Record which comprises all patient information including treatment history, results of lab tests, as well as graphical and video images received from various diagnostic devices. A unique tree-view technology used to create and edit document templates makes it a very useful and convenient tool for preparing medical examination reports. Other important subsystems include scheduling, laboratory, statistical analysis, hospital management, security, etc.</p> | | |
| Contact person | Forename and surname | VSEVOLOD KACHMAR | |
| | Contact details | ELEKS Software Ltd. Ukraine, 79060 Lviv, Naukova Str. 7G Tel./Fax +38 032 2971251 vsev@eleks.com | |

ID no: **ICT 10**

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|---------------------------------------|---|--|-------------------------|
| Title of Project | OSOZ – (unique healthcare system). | | |
| Name of Institution and adress | Kamsoft POLAND; 40-235 Katowice, 1 Maja Str. 133 | | |
| Type of institution | SME | | |
| Institution profile | <p>Our company provides complete web based, fully integrated and modular software for Healthcare Institutions and other businesses.</p> <p>OSOZ (polish national health care system) includes several thousands of medical and pharmaceutical facilities in Poland. Automatic data exchange is achieved in "real time". The service support is provided by the National Web Service, which is run by over 1200 consultants and IT specialists. It's a comprehensive information and computer system intended to support health care management at all levels of the health care market. Health care management is supported by the achievements of medical, technical and economical cybernetics. It's suitable for midrange to multispecialty healthcare institutions.</p> <p>In the OSOZ system, each Patient has an Individual Health Account. The Patient's State of Health is determined on the basis of the treatment history accumulated on the Individual Health Account.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Medical Software | IT | Innovative technologies |
| Project description | <p>Thanks to uniform IT platform, we developed a system which integrate patients, doctors and pharmacist.</p> <p>All users are able to:</p> <ul style="list-style-type: none"> ▪ access to medical data through the Internet ▪ setting up an individual health account ▪ communicate between patient, doctor and pharmacist ▪ use health services ▪ access to prevention programs ▪ control drug interactions ▪ to register on –line for check- ups ▪ to check drug availability ▪ to calculate drug costs | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Int'l Organization Large Industry SME | | |
| The area of expertise | We are interested in all innovations which could be applied in healthcare institutions. | | |
| Contact person | Forename and surname | RAFAŁ KOZIOŁ or KINGA SOKOŁOWSKA | |
| | Contact details | Poland, 33-100 Tarnów, Słoneczna Str. 32 Tel./Fax +48 014 6271840 ksokolowska@medycynapolska.pl | |

ID no: **ICT 11**

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|---------------------------------------|---|--|--------------------|
| Title of Project | <i>TREE – Teleradiology for Eastern Europe.</i> | | |
| Name of Institution and adress | VOXEL S.A. POLAND; 30-663 Kraków, Wielicka Str. 255 | | |
| Type of institution | SME | | |
| Institution profile | VOXEL acts on the health service market in Poland and starts working in Ukraine (Lviv). Teleradiology provider especially for outside hospitals / sides. | | |
| Main subject of activity | KEY WORDS | | |
| | Health | MR/CT | Diagnostic Imaging |
| Project desription | Currently Voxel is operating a production stage teleradiology network through Poland with Voxel plans to expand to Ukraine the solution need to be rescaled to cover differences between participating countries. Technical upgrade is also deserved to improve scalability and robustance. | | |
| Stage of project | Other: Pilot implementation | | |
| Type of sought partner | Alteris with Voxel as medical partner has been providing teleradiology network solution since 2006. 3 years of production stage experience results in advanced procedures and recognition of challanges. | | |
| The area of expertise | University Public Administration Others: Hospitals | | |
| Contact person | Forename and surname | JACEK LISZKA | |
| | Contact details | Poland, 30-663 Kraków, Wielicka Str. 255 Tel./Fax +48 032 6093240; +48 032 6093249 liszka@voxel.pl , www.voxel.pl | |

| | | |
|---------------------------------------|---|---|
| Title of Project | <i>Electrical Capacitance Tomograph.</i> | |
| Name of Institution and adress | Faculty of Electronics and Information Technology POLAND; 00-665 Warszawa, Nowowiejska Str. 19 | |
| Type of institution | University | |
| Institution profile | www.elka.pw.edu.pl | |
| Main subject of activity | KEY WORDS | |
| | Tomography | Electrical process tomography |
| Project desription | <p>Electrical Tomography is a measurement technique for obtaining information about the contents of process vessels and pipelines. Multiple electrodes are arranged around the boundary of the vessel at fixed locations in such a way that they do not affect the flow or movement of materials. Tomographic measurement techniques differ from point measurement techniques, because they sample a substantial proportion of the process volume rather than at a single point. Circular pipeline-based sensors measure an entire cross-sectional volume.</p> <p>The technology can be used for liquid/liquid, solid/liquid, gas/liquid, gas/solid/liquid systems. The spatial resolution of the imaging method and the sensitivity of the method depend specifically on the electrical properties of the system being measured and upon the dimensions of the process.</p> <p>Typically, a sensor consists of 8,12 or16 electrodes and for research applications up to 8 x 16 electrodes may be arranged within a process vessel.</p> | |
| Stage of project | Full exploitation | |
| Type of sought partner | Research Institute Large Industry | |
| The area of expertise | <p>The technique can be used with a wide range of research and development applications demonstrated, including:</p> <ul style="list-style-type: none"> ▪ interrogation of mixing processes ▪ investigating a solid-liquid filtration process ▪ monitoring the performance of a hydrocyclone ▪ measurement and control of bubble columns ▪ measurement of multiphase flow <p>One of the main application areas of electrical tomography is the measurement of multiphase flow regimes.</p> | |
| Contact person | Forename and surname | ROMAN SZABATIN |
| | Contact details | Poland, 00-665 Warszawa, Nowowiejska Str. 15/19 Tel./Fax +48 022 2347577 r.szabatin@ire.pw.edu.pl |

ID no: **ICT 13**

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|---------------------------------------|--|---|------------|
| Title of Project | <i>Information Computer Technologies of Vinnytsya (City Administration system).</i> | | |
| Name of Institution and adress | Vinnytsya City Council UKRAINE; 21001 Vinnytsya, Soborna Str. 59 | | |
| Type of institution | Public Administration | | |
| Institution profile | <ul style="list-style-type: none"> ▪ Permission system improvement ▪ Document circulation organizing ▪ Geographic information system ▪ Municipal multiservice network ▪ Collaborative work systems ▪ International relations improvement | | |
| Main subject of activity | KEY WORDS | | |
| | Government | Communications | Management |
| Project description | <p>City administration includes large number of abilities to manage the city workflows, such as:</p> <ul style="list-style-type: none"> ▪ Perfected circulation of documents ▪ Easy information search by structured info storages ▪ Restricted permission system abilities ▪ High level of Citizenry security ▪ Road traffic extended management ▪ Urban transport ▪ Geographic information system implantation ▪ Improved Housing and communal services <p>Technologies used to realize purposes:</p> <ul style="list-style-type: none"> ▪ Microsoft Office SharePoint Server 2007 ▪ Multiservice optical network ▪ Microsoft Windows Server 2003 ▪ Active Directory ▪ Microsoft Exchange Server ▪ Geographical Information System "Panorama" <p>The main idea of the project is to help citizenry to improve relations between them and municipal government organizations, save time wasted in government offices and append these communications to the new clear and democratic level.</p> | | |
| Stage of project | Development has been started Other: implementation stage | | |
| Type of sought partner | Int'l Organization Public Administration SME | | |
| The area of expertise | Plans and concepts inculcates by the computer and communication department, which is a subdivision of Vinnytsya City Council. Guides work for projects development and implementing it into city life. | | |
| Contact person | Forename and surname | OLEXANDR RYZHENKO | |
| | Contact details | Tel./Fax +38 043 2595050 alex@vmr.gov.ua; www.vmr.gov.ua | |

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|---------------------------------------|---|---|
| Title of Project | <i>Therapeutic and diagnostic devices based on very high frequency and extremely low intensity electromagnetic radiation.</i> | |
| Name of Institution and adress | Military University of Techology POLAND; 00- 908 Warszawa 49, Gen. Kaliskiego Str. 2 | |
| Type of institution | University | |
| Institution profile | Military University of Technology POLAND; 00- 908 Warszawa 49, Gen. Kaliskiego Str. 2 | |
| Main subject of activity | KEY WORDS | |
| Project description | <p>It in 60-years the last century, the working on human's organism of electromagnetic field of very high frequency (VHF) and low intensity was detected. During last decade the intensified researches of utilization in medicine this phenomenon are observed. Works are example many research groups which is the result of publication and the diagnosis and therapeutic apparatus. One of such research groups works at Institute of Technical Mechanics (ITM) of the National Academy of Sciences (NAS) of Ukraine. Result of one's research and developmental works is the set of diagnosis and therapeutic apparatus to using the VHF electromagnetic field. This research group will be one of executors of present project in Forum ITMED, thanks this it will be possible captured the utilization by him the experiences in frames of co-operation from NASA.</p> <p>From radiophysical point of sight, can the human's organism treat as open informative system clever to passing on surrounding environment and gain with him energy and information. In relation from this, informative fields of alive organisms have electromagnetic nature, proper to their investigation and steering are methods and techniques used in radioelectronic in regard to specifically of the human's organism. From this reason in quick diagnosing method based on measurement the multi-frequency admittance of tissues in biologically active points. Proposed, new formulation is original and fundamentally corner oneself from measurements of direct current according to Voll's method.</p> <p>The therapy with the aid of VHF electromagnetic field depends on influence on system of tissues. This influence moves with the aid of miniature VHF module (the VHF needle), in which Gunn's joint is used as a active element. Healing result be reached, to operate simultaneously on a several biologically active points on human's body, VHF signal about frequency band, which contained resonance frequency is stimulated cell's system. The level of power of emitted signal by „the VHF needle” is less then 10nW.</p> | |
| Stage of project | | |
| Type of sought partner | | |
| The area of expertise | <p>Electromagnetic field of low intensity, applied in worked out apparatus used both in diagnosis and therapy it does not produce negative reactions in human's organism, and favours formation natural adaptive reactions only, which is equivalent with effective therapy.</p> <p>Previously experience captured by authors of project, in peculiarity by research group from ITM of NAS of Ukraine during constructing and practical investigation of equipment shows, that it requires so far more technical improvements, to shorten the time of diagnosing the patient and to make possible dynamic monitoring the progresses of treatment.</p> | |
| Contact person | Forename and surname | AUGUSTYN CHWALEBA or JAN SZCZURKO |
| | Contact details | Tel./Fax +48 022 6839777; +48 022 6837845 mobile +48 504962914 |

ID no: **ICT 15**

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|---------------------------------------|---|---|
| Title of Project | <i>Antistressor action of millimeter-wave electromagnetic radiaton of extremely low intensity.</i> | |
| Name of Institution and adress | Military University of Techology POLAND; 00- 908 Warszawa 49, Gen. Kaliskiego Str. 2 | |
| Type of institution | University | |
| Institution profile | Military University of Technology POLAND; 00- 908 Warszawa 49, Gen. Kaliskiego Str. 2 | |
| Main subject of activity | KEY WORDS | |
| Project desription | <p>The project is the result of a joint effort of researchers in electronics, in applications of extremely high frequencies and in medicine. The most common feature of the modern times is an enormous amount of the negative factors influencing human organism. Among them are forces of nature and other destructive agents, such as ionizing radiation, toxic substances and non-balanced nutrition. Their combined action results in an exhaustion of adaptive and compensatory mechanisms, in an eruption of new diseases, in an acceleration of the aging phenomena.</p> <p>Practically all the diseases are accompanied by a stress: stable non-specific adaptive reaction of an organism. It leads to different dysfunction of organs and systems as well as reduction of the quality of life. Especially vulnerable to stress are children with hard pathologies.</p> <p>Generally accepted treatments of the psycho-emotional dysfunction is unsatisfactory (sometimes is noneffective at all) and often results in a chronic stress, which causes desynchronization in bio-energy system of organism, complicates the recovery and increases susceptibility for other diseases.</p> <p>Thus development of a new and specifically non-pharmaceutical approaches to the treatment of stresses is quite topical and of great importance.</p> | |
| Stage of project | | |
| Type of sought partner | | |
| The area of expertise | <p>The main subject of the project is twofold: to further investigate the effects of a millimeter wavelength (UHF) electromagnetic radiation of extremely low intensity on stress and create the basis for new technologies (totality of medical methods and technical means for their realization);</p> <ul style="list-style-type: none"> ▪ to develop design criteria and routine for the application of the new generation of therapeutic equipment, build and test the pilot samples and their production line. | |
| Contact person | Forename and surname | AUGUSTYN CHWALEBA or JAN SZCZURKO |
| | Contact details | Tel./Fax +48 022 6839777; +48 022 6837845 mobile +48 504962914 |

ID no: **ICT 16**

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|---------------------------------------|--|--|
| Title of Project | <i>Hardware/software system and new diagnostic technologies for the study of homeostasis mechanisms.</i> | |
| Name of Institution and adress | Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine UKRAINE; 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 | |
| Type of institution | Research Institute | |
| Institution profile | Dynamics of mechanical and hydromechanical systems, launch vehicle systems, railway and motor transport; Aerothermodynamics of power plants, spacecraft, and their subsystems; Strength, reliability and optimization of the mechanical systems, launchers, and spacecraft; Mechanics of the interaction of a rigid body with ionized media and electromagnetic radiation; Systems analysis of the rocket-space technology development tendencies; The development of proposals for the Ukraine's National Space Program and other program documents on the rocket and space technology; Analysis of advanced rocket and space systems and their operation; expertise of Space Programs and Projects, analysis of rocket and space technology tests results; Technico-economic background of Space Programs. | |
| Main subject of activity | KEY WORDS | |
| | Puncture electrographic instant diagnosis | Point thermometry |
| Project description | Device for the simultaneous measuring of electro-physiological descriptions and local temperature with the use of revolting factor – the dosed influence by extremely radio frequency - therapy. Essence of the offered technology consists in: <ul style="list-style-type: none"> ▪ connection of approaches of clinical physiology and alternative medicine; ▪ creation of a new instrument for the study of thin machineries of adjusting of processes what am going on in a still human organism; ▪ process control of medical treatment and rehabilitation; ▪ possibilities of receipt of prognosis of disease. | |
| Stage of project | Full exploitation | |
| Type of sought partner | Research Institute | |
| The area of expertise | <ul style="list-style-type: none"> ▪ radiophysics; ▪ electronics; ▪ medicine; ▪ microwave techniques | |
| Contact person | Forename and surname | VOLODYMYR KAMKOV |
| | Contact details | Ukraine, 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 Tel./Fax: +38 056 3720639, +38 056 7135341 ramed@ukr.net ; www.itm.dp.ua |

ID no: **ICT 17**

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|---------------------------------------|---|---|-----------------------------|
| Title of Project | <i>Therapeutic and diagnostic devices based on encephalographic frequencies programmed low intensity photostimulation on visual Receptors.</i> | | |
| Name of Institution and adress | National University "Lvivska Politechnica" UKRAINE; 79000 Lviv, Bandery Str. 12 | | |
| Type of institution | University | | |
| Institution profile | Research and development | | |
| Main subject of activity | KEY WORDS | | |
| | Photomedical technologies | Medic and psychological programs | Electromagnetic stimulation |
| Project description | The purpose of project is development of therapeutic and diagnostic lowintensive devices with new application of visible non-coherent electromagnet stimulation on the basis of medic psychologic programs. Devices are provided by bioinfluential programmable photostymuls, modulated basic and activated action by encephalographic frequencies, on visual receptors. Devices are universal, can be used for anaesthetizing and treatment, in particular, ear noises, and for neurodiagnostic. Information about the changes of the psychophysic state of patient during procedure and about its completion turns out on the basis of the continuous measurings of electro-physical parameters of body of man. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute SME | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ clinical researches ▪ medical modeling and simulation ▪ encephalographic medical researches ▪ optical modeling and simulation ▪ theory and methods of mathematical and physical modeling and simulation of electro physical characteristics of developed devices ▪ metrological providing of developed devices and systems, methods and tools ▪ physical base of development ▪ high-performance computing and special purpose device design ▪ ecological problems ▪ theory of controlled processes, development and creation of all kinds automatic control systems of electro physical characteristics of developed devices | | |
| Contact person | Forename and surname | ANDRIY ZAZULYAK | |
| | Contact details | Ukraine, 79070 Lviv, Osvytska Str. 7/14 Tel./Fax +38 050 5559887 | |

ID no: **ICT 18**

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|---------------------------------------|--|--|-------------|
| Title of Project | <i>Optoelectronic information and energy management system of traffic lights and traffic.</i> | | |
| Name of Institution and adress | Vinnitsa National Technical University & AlfaMetric UKRAINE; 21021 Vinnitsa, Khmelnytsky Shose 95 | | |
| Type of institution | University SME | | |
| Institution profile | System integration. Sale and implementation of modern information and security. Development of new technical solutions, GIS-energy system. Parallel opto-electronic specialized processors. Laser and opto-electronic biomedical system of real time. | | |
| Main subject of activity | KEY WORDS | | |
| | Optics | Laser Technology | Innovations |
| Project desription | Centralize management of traffic lights and traffic flows on the basis of optical-electronic means. (Energy-saving super-bright lights, video camera surveillance). Intellectualization of information systems. Using interactive road signs. Ensuring connectivity between the nodes in the system by means of optical communication lines. | | |
| Stage of project | Initial idea | | |
| Type of sought partner | | | |
| The area of expertise | | | |
| Contact person | Forename and surname | SERHIY V. KOSTYUK | |
| | Contact details | Ukraine, 21050 Vinnitsa, PO Box 8204 Tel./Fax +38 067 4324288 svk@alfametric.com.ua | |

ID no: **ICT 19**

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|--|---|---|--------------|
| Title of Project | <i>Creation of electronic system of exchange of medical information.</i> | | |
| Name of Institution and address | State Clinical Scientific-Practical Telemedicine Center UKRAINE; 03680 Kyiv, pr. Komarova Str. 3 | | |
| Type of institution | Public Administration | | |
| Institution profile | State Clinical Research Telemedicine Center is a specialized institution for health care, which is subordinate to the Ministry of Health of Ukraine. The aim of Center is rendering high-skilled assistance using modern information and telemedical technologies, their designing, approbation, implementation and development of telemedicine in Ukraine. | | |
| Main subject of activity | KEY WORDS | | |
| | Telemedicine | Information | Technologies |
| Project description | <p>The aim of this project is creation of electronic system of registration and exchange of medical information between institutions for health care on the base of information and telecommunication technologies.</p> <p>This project can fulfill the following functions:</p> <ul style="list-style-type: none"> ▪ To increase quality and efficiency of medical care; ▪ To create the base for connected health data- electronic health data registration and exchange system between medical care providers and healthcare institutions; ▪ To simplify the implementation of insurance medicine by creating contemporary Information and Communications infrastructure of the sphere and electronic register of patients and consultations they were provided; ▪ To optimize and to simplify accessibility of citizens healthcare as much as possible irrespective of location and registration by implementation of electronic health record cards for patients; ▪ To increase safety of patient by minimization of mistakes during data collection and data handling relating to human factor; ▪ To reduce healthcare costs and to increase the efficiency of planning in healthcare system by time saving of collecting reliable statistical data; ▪ To implement continuous monitoring of processes relating to social and medical provision of Ukrainian people. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Int'l Organization Consultancy SME | | |
| The area of expertise | <p>Our industry expertise lies mainly in the fields of:</p> <ul style="list-style-type: none"> ▪ Information Technology. Our team has significant expertise in sourcing profiles such as technical support specialists, system administrators, architects, project managers. Our consultants focus also on the importance of the candidates having a strong business understanding. ▪ Telecommunications. Our expertise lies in both infrastructure/networking, to customized software and security solutions (intrusion, firewalls, authentication), from support engineering level to middle management. | | |
| Contact person | Forename and surname | VITALIY OSTASHKO | |
| | Contact details | Ukraine, 036803 Kyiv, pr. Komarova Str. 3 Tel./Fax +38 044 4043475 telemedkiev@gmail.com | |

ID no: **NMP 26**

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|---------------------------------------|--|--|------------|
| Title of Project | <i>Cellulose fibres insulation.</i> | | |
| Name of Institution and adress | EcoService Małgorzata Bąk POLAND; 25-361 Kielce, Bohaterów Warszawy Str. 3/61 | | |
| Type of institution | Other: Exclusive seller of cellulose fibres insulation | | |
| Institution profile | Exclusive seller of cellulose fibres insulation | | |
| Main subject of activity | KEY WORDS | | |
| | Cellulose | Fibres | Insulation |
| Project desription | Production and development of cellulose fibres insulation | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Other: construction companies , wholesale store of construction materials | | |
| The area of expertise | Companies which could be interested in using term isolating cellulose materials | | |
| Contact person | Forename and surname | MAŁGORZATA BĄK | |
| | Contact details | Tel. +48 041 3442749; Fax +48 041 3480174 biuro@ecoservice.com.pl ; www.ecoservice.com.pl | |

ID no: **NMP 27**

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|---------------------------------------|--|--|---------------|
| Title of Project | <i>Spontaneous forming of billets under pressworking.</i> | | |
| Name of Institution and adress | Kremenchuk Mykhaylo Ostrogradskiy State Polytechnic University Department of Manufacturing Engineering UKRAINE; 39600 Kremenchuk, Pershotravneva Str. 20 | | |
| Type of institution | University | | |
| Institution profile | <ul style="list-style-type: none"> ▪ Sheet metal forming development. ▪ Designing of pressforms and tools. ▪ SHS synthesis of TIC | | |
| Main subject of activity | KEY WORDS | | |
| | Forming | Explosion | SHS Synthesis |
| Project desription | The project considers the ways of reducing energy consumption during the forming process by means of self-excitation of the vibroplastic effect and resonance self-excited oscillations in a billet. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Sheet forming processes and equipment ▪ Vibroplastic metal working | | |
| Contact person | Forename and surname | VLADIMIR DRAGOBETSKY | |
| | Contact details | Ukraine, 39600 Kremenchuk, Pershotravneva Str. 20 Tel./Fax +38 067 7716137; +38 053 6636000 vldrag@polytech.poltava.ua | |

ID no: **NMP 28**

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|---------------------------------------|--|---|----------------|
| Title of Project | <i>Theoretical approaches to development of technologies, equipment and the tools for applied medicine based on physical principles.</i> | | |
| Name of Institution and adress | E. O. Paton Electric Welding Institute of the NAS of Ukraine UKRAINE; 03680 Kyiv, Bozhenko Str. 11 | | |
| Type of institution | Research Institute | | |
| Institution profile | At present the priory lines of activity of the Institute are as follows: <ul style="list-style-type: none"> ▪ advanced welding technologies; ▪ strength, reliability and durability of welded structures; ▪ surfacing, coating and surface treatment technologies; ▪ special electrometallurgy; ▪ development of new structural and functional materials; ▪ technical diagnostics and non-destructive testing; ▪ automation of welding and related technologies. | | |
| Main subject of activity | KEY WORDS | | |
| | Surgical Technologies | Surgical Equipment | Surgical Tools |
| Project desription | The carried out researches have allowed to establish the basic laws of biophysical processes in tissues at using of various surgical technologies at high temperatures. It has in turn allowed to purposefully form medical-technical characteristics of the created specialized equipment and tools. This permits allow to carry out the basic surgical manipulations such as fast and exact incision of tissues with minimal zone of their damage, combination of incision with hemostasis, connection of soft tissues without application of surgical strings, various brackets and clip forceps, and also to carry out preventive maintenance of an infection in a wound and processing of infected wounds. | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | Research Institute | | |
| The area of expertise | | | |
| Contact person | Forename and surname | IGOR KHUDETSKYI | |
| | Contact details | The E.O. Paton Electric Welding Institute Ukraine, 03680 Kyiv, Bozhenko Str. 11 Tel./Fax +38 044 2873388 ; +38 044 2712072 igorkh@paton.kiev.ua ; www.paton.kiev.ua | |

ID no: **NMP 29**

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|---------------------------------------|--|---|-------------------------------|
| Title of Project | <i>The new materials for the decoration of ceramic tiles and glass.</i> | | |
| Name of Institution and adress | The Institute of Glass, Ceramics, Refractory and Construction Materials Department of Decoration Agents POLAND; 02-676 Warszawa, Postępu Str. 9 | | |
| Type of institution | Research Institute | | |
| Institution profile | ISCMOiB is conducting: <ol style="list-style-type: none"> 1. research work within the scope of: <ul style="list-style-type: none"> ▪ glass, ceramics and bio-ceramics, refractory and construction materials, mineral raw materials, environmental protection, energy conservation, creation of new and improvement of the existing production process engineering in the line of mineral construction materials 2. production of: <ul style="list-style-type: none"> ▪ technical ceramics, refractory materials, bio-ceramics, fritd, engobes and glazes, ceramic pigments and paints, special cements, dry mixtures and cement composites, control and measuring apparatus | | |
| Main subject of activity | KEY WORDS | | |
| | Ceramic and glass | Refractory and construction materials | Material, process engineering |
| Project desription | Lead free colours paints for decoration of tiles for fast firing cycles. Paints for the decoration of glass tiles and stripss, glasses war. Consultation concerning colours to paint glass, tiles and other glassware – finishing materials. Cooperation in optimalization of tiles and glassware production (glass strips). | | |
| Stage of project | | | |
| Type of sought partner | Research Institute Int'l Organization Large Industry SME | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ The ceramics tiles manufacturers ▪ Glassworks ▪ Small and medium enterprises that decorate ceramics and glass | | |
| Contact person | Forename and surname | DANUTA CHMIELEWSKA | |
| | Contact details | Tel. +48 022 8438278, Fax +48 022 8432551 d_chmielewska@isic.waw.pl | |

ID no: NMP 30

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|--|---|---|-------------|
| Title of Project | <i>Structure and physical properties of Fe - BASED SC, Sm(Y,La)-Fe-Bi(Sb)-O SYSTEMS.</i> | | |
| Name of Institution and address | Scientific-practical materials research centre institute of solid state physics and semiconductors National academy of sciences of Belarus BELARUS; 220072 Minsk, P. Brovki 19 | | |
| Type of institution | Research Institute | | |
| Institution profile | The Institute is carrying out basic investigations in various fields of the solid state physics: solid state theory, physics of magnetism and ferroelectricity, semiconductor physics, high-temperature superconductors and highly pure metals in special conditions, superhard materials, crystal growth, radiation effects on solids, interaction of optical emission with condensed matter. The Institute also carries out applied research in frames of the above mentioned research fields. | | |
| Main subject of activity | KEY WORDS | | |
| | Ceramics | HTSC | Fe-based SC |
| Project description | <p>Since the discovery of high-transition temperature (T_c) superconductivity in layered copper oxides, extensive efforts have been devoted to explore the higher T_c superconductivity. Very recently, layered rare-earth metal oxypnictides LnOMPn ($\text{Ln}=\text{La, Pr, Ce, Sm}; \text{M}=\text{Fe, Co, Ni, Ru}$ and $\text{Pn}=\text{P}$ and As) with ZrCuSiAs type structure have attracted great attention recently due to the discovery of superconductivity at $T_c = 26$ K in the iron-based $\text{LaO}_{1-x}\text{F}_x\text{FeAs}$ ($x=0.05-0.12$). Immediately, T_c was drastically raised to 43 K in $\text{SmO}_{1-x}\text{F}_x\text{FeAs}$, followed by reports of $T_c=41$ K in $\text{CeO}_{1-x}\text{F}_x\text{FeAs}$, and 52 K in $\text{PrO}_{1-x}\text{F}_x\text{FeAs}$. These discoveries have generated much interest for exploring novel high temperature superconductor, and provided a new material base for studying the origin of high temperature superconductivity. The purpose of the present work will be the determining and explaining behavior of structure changing and physical properties of Fe – based SC oxypnictides in Sm-Fe-Bi(Sb)-O systems, obtained using both usual ceramic technology and high pressure hot pressing. The superconductivity in these materials appears to be unconventional, and much careful work will be required to elucidate the interesting physics in the newly discovered superconductors. It appears that the electron-phonon interaction is not strong enough to give rise to such high transition temperature in newly discovered Fe-based superconductors. Strong ferromagnetic and antiferromagnetic fluctuations have been proposed to be responsible for the superconductivity.</p> | | |
| Stage of project | Initial idea Feasibility study | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | HTSC (layered copper oxides), Ceramics. | | |
| Contact person | Forename and surname | SIARHEI LEBEDZEU | |
| | Contact details | Belarus, 220072 Minsk, P. Brovki 19 Tel./Fax +37 517 28409041 lebedev@physics.by; www.lebedevsa.com | |

ID no: **NMP 31**

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|---------------------------------------|---|--|----------------------|
| Title of Project | <i>Surface plasmon resonance (SPR) portable sensors.</i> | | |
| Name of Institution and adress | Institute of Cybernetics NAS of Ukraine UKRAINE; 187 Kyiv, Academician Glushkov Av. 40 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>Basic directions of scientific researches of Institute is today:</p> <ul style="list-style-type: none"> ▪ development of general theory and methods of systems analysis, mathematical design, optimization and artificial intelligence; ▪ development of general theory and of control, methods of intellectual control of different level; ▪ creation of general theory of calculable machines and development of perspective facilities of the computing engineering, artificial intelligence and informatics; ▪ creation of the perspective systems of the mathematical providing of the common and applied setting; ▪ development of new technologies and intellectual systems for collection and processing of data, including for medicine and monitoring of environment. | | |
| Main subject of activity | KEY WORDS | | |
| | Information technology | Intellectual sensors | Thin film technology |
| Project desription | <p>Development and manufacturing of sensors devices on surface plasmon resonance (SPR) are carried out by us.</p> <ul style="list-style-type: none"> ▪ Analytical sensor of angular type with mobile source of radiation and the photodetector. It is developed the software for computer data processing (multipurpose user interface, representation of sensorogram). ▪ Portable SPR sensor with divergent beam of radiation with an independent power unit and the block of data processing. <p>It is developed thin films technology of SPR chips with plasmon supported Au film and Nb adhesive layer as well as SPR chips of long-term stability with dielectric layer.</p> <p>We are interested in search of partners from Poland and other countries for carrying out of teamwork on development and introduction SPR sensor controls and thin films chips.</p> | | |
| Stage of project | Feasibility study | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Who are interested in investigations of optical properties of thin films (inorganic dielectric films, bio-materials, polymers, etc.) and surface-molecular interactions by SPR. ▪ Who are interested in joint development and introduction of liquids, gas sensors and biosensors based on SPR, both stationary, and portable. ▪ Who are interested in different thin films chips for SPR and LSPR. | | |
| Contact person | Forename and surname | IGOR VOITOVYCH | |
| | Contact details | Institute of Cybernetics NAS of Ukraine Ukraine, Kyiv-187, Academician Glushkov Av. 40 Tel. +38 044 5260128 Tel/Fax +38 044 5261267; +38 044 5263348 d220@meta.ua; tetyana_leb@mail.ru; http://www.icyb.kiev.ua | |

ID no: **NMP 32**

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|--|---|---|------|
| Title of Project | <i>Development and demonstration of technologies of composite cellular materials for energy, environment protection and medicine applications.</i> | | |
| Name of Institution and address | Powder Metallurgy Institute (PMI), National Academy of Sciences of Belarus BELARUS; 220005 Minsk, Platonov Str. 41 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>PMI is a multiprofile scientific institution dealing with the research, development and application of new materials predominantly in the field of powder technologies including conventional PM products, superhard materials, composites, biomaterials, protective coatings, porous materials, nanomaterials, etc.</p> <p>PMI is the biggest Belarusian research centre dealing with the material R&D problems.</p> <p>Beside R&D, PMI's R&D is usually targeted at the pilot or industry scale technology development.</p> <p>PMI includes the Materials Certification Center accredited by the State Standard of the Republic of Belarus.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Composite | Open-cell | Foam |
| Project description | <p>Open cell high-porosity permeable foams have been extensively developed and studied during the last decade because of their unique combination of properties: rigid pore structure, high porosity (up to 97%), high hydraulic permeability and a wide possible range of their compositions (metals, ceramics, composites). The confirmed successful application areas of the foams include energy, ecology and medicine.</p> <p>Main task of the presentation is to demonstrate the most promising fields of the lab's expertise and offer to potential partners the following experienced joint development activities.</p> <p>1) Energy. Radiation burners based on the deep oxidation of hydrocarbons. Catalyst substrates for the internal reforming in SOFCs.</p> <p>2) Environment protection. Catalyst substrates for the pollution control systems. Deep-bed type catalyzed filters with excellent hydraulic permeability.</p> <p>3) Biomedical. Tissue scaffolds based on non-resorbable and resorbable ceramics as well as complex compositions.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Large Industry SME | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Open-cell foams; ▪ Powder metallurgy; ▪ Electro-chemistry; ▪ Ceramics. | | |
| Contact person | Forename and surname | VITALI MIKUTSKI | |
| | Contact details | Belarus, 220005 Minsk, Platonov Str. 41 Tel./Fax +37 517 2926639 mikutski@tut.by; http://pminstitute.by | |

ID no: **NMP 33**

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|--|---|---|---------|
| Title of Project | <i>Development of the selective coating for the solar collectors.</i> | | |
| Name of Institution and address | Institute of Physical Organic Chemistry NAS of Ukraine UKRAINE; 79053 Lviv, Naukova Str. 3a | | |
| Type of institution | Research Institute | | |
| Institution profile | <ol style="list-style-type: none"> Coatings nanoparticles dispersed in matrices on substrates have been fabricated by a sol-gel technique. Advanced technologies for production of special latexes and polymer dispersions: <ul style="list-style-type: none"> Polymer dispersions with fluorescent markers. Stable surface functionalized water dispersion of polymers. Latex with complex structure of particles, e.g. "core – reactive shell". Polymer dispersion filled with silica, magnetic or semiconductor nanoparticles. The synthesis of new functional radical initiators, including peroxide oligomers and polymers. <ul style="list-style-type: none"> The study of their immobilization and reactions at interfaces in diverse colloidal systems: emulsions, latexes, aqueous and organic suspensions, filled and reinforced polymers, polymer mixtures, etc. Grafting polymerization. Kinetic regularities of linear and 3D photoinitiated polymerization till the high conversions and kinetics of postpolymerization. Obtaining of composites with improved physical and mechanical properties. <p>Application of these investigations for creation of novel technologies, including nanotechnologies, for design and production of high-tech polymer materials.</p> | | |
| Main subject of activity | Key Words | | |
| | Solar | Collector | Sol-Gel |
| Project description | <p>About 30 % of general energy using in Ukraine consumes for the builds heating. Annual solar insolation depending the Ukrainian region is in a range from 900 till 1300 kW·h/(m²·year). Approximately 1000 kW·h hits per 1 m² of the surface that corresponds to power-consuming about 100 l of diesel fuel or 100 m² of natural gas. Correctly constructed solar collectors permit to economy till 35 % of general need in energy for producing of heat water and central heating and generally whole to refuse from the additional heat sometimes in summer.</p> <p>In accordance with our data based on available references, the solar collectors are not performed in Ukraine at present time. Collectors which are proposed by ukrainian producers now is a result of inexpensive ukrainian labour force and prepared high effective selective coating, however by foreign production (namely, Germany, China, Austria, ect.). That is why the cost of such plans is rather high and hasn't a great request in Ukraine.</p> <p>It is proposed by us the method of obtaining the high selective coating by sol-gel method. This method is simple and convenient for obtaining of materials containing in the surface layer the functional groups. Using of this method gives the wide perspectives for development both the materials with given properties and also their surface.</p> <p>Solar collectors intended for the effective transformation of solar energy into the heat one and providing the autonomous solar heat supply (heat water supply and central heating) of housing and producing objects (namely, houses, hotels, homes, agricultural farms, greenhouses, ect.). At successful performing the work as to high selective coating development we can guarantee the high effectiveness and long term service of the solar collectors.</p> <p>Advantages:</p> <ul style="list-style-type: none"> application of indeficit and cheap materials for production of selective coating; simple and cheap technology of coating coatication on copper absorbing collector board; very simple buildup of the selective board in practically developed construction of solar collector; development of low cost solar collectors by domestic manufacture in comparison with the foreign analogues. <p>Disadvantages:</p> <ul style="list-style-type: none"> possible decrease of the work effectiveness for sensors in comparison with the foreign ones at the expense of refusal from the expensive materials and from the application of high cost selective coating; demand for this commercial production in not still high in Ukraine due to non-acceptance of respective programs by government structures (in comparison, for example, with Poland and countries of the Baltic sea). <p>We are cooperating to Lviv State Agriculture University. Now the combine system of the complex energy providing the housing objects is already practically developed with the use of renewable energy sources. At successful development of the selective coating we can create the own solar collector (the value of the one board accordingly to our calculations is decreased in 2–2,5 times) and increase the competitive ability of all complex.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute SME | | |
| The area of expertise | <p>We are seeking for collaboration with organisations which would like to participate in the process of application and submission of projects in 7 FP.</p> <p>A brief description of the area of expertise:</p> <ul style="list-style-type: none"> Sol-gel synthesis under different conditions and obtaining the selective coatings. Investigations of coatings with the use of AFM and raster electronic microscope (REM), using the signal spectroscopy and nitrogen adsorption-desorption isotherms. Determination of the most effective coatings using the lamp-imitator of the solar irradiation. - Setting up the selective coating production. | | |
| Contact person | Forename and surname | ROSTYSLAV MUSIY | |
| | Contact details | Tel./Fax +38 032 2635174 rostyslav_musiy@ukr.net | |

ID no: NMP 34

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|--|--|--|-------|
| Title of Project | <i>Composition of Iodine-Containing Biologically Active Nutrients and Drugs.</i> | | |
| Name of Institution and address | State Research and Innovation Center "Institute of Pharmacology and Biochemistry of the National Academy of Sciences of Belarus" BELARUS; 230017 Grodno, BLK Str. 50 | | |
| Type of institution | Research Institute | | |
| Institution profile | Major research vectors of Institute of Pharmacology and Biochemistry: <ul style="list-style-type: none"> ▪ To develop a number of amino acids-containing medical drugs and other natural biologically active compounds ▪ To study in the field of molecular mechanism of development liver and thyroid gland diseases, carcinogenesis and pathological conditions related to deficiency of micronutrients, stress, alcohol abuse ▪ To develop methods of diagnostics and human diseases corrections ▪ To develop and produce test-systems for medical application | | |
| Main subject of activity | KEY WORDS | | |
| | Health | Thyroid diseases | Drugs |
| Project description | A relevance of study caused by growth of thyroid pathology against the background of iodine prophylaxis improvement and rise of consumption of iodine containing drugs. We are offer a creation of new generation of bioactive compounds on basis of natural substances (vegetable and microbial origins and others). Aim of project: <ul style="list-style-type: none"> ▪ to improve the efficiency of endemic goiter treatment among children, adolescents and adults; ▪ to decrease the duration of treatment and to normalize thyroid function; ▪ to create bioactive compounds containing iodine to foodstuff production. collaboration, cooperation, joint projects | | |
| Stage of project | Initial idea Development has been started | | |
| Type of sought partner | University Research Institute SME | | |
| The area of expertise | Health, Medicine, Pharmacology. | | |
| Contact person | Forename and surname | LILIYA NADOLNIK | |
| | Contact details | Department of Bioregulators, Institute of Pharmacology and Biochemistry of National Academy Sciences of Belarus Belarus, 230017Grodno, BLK Str. 50 Tel./Fax +37 515 2437761; +37 515 2434121 lnadolnik@tut.by | |

ID no: **NMP 35**

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|---------------------------------------|--|---|
| Title of Project | <i>Processing, modelling and performance of La₂NiO₄-BASED ceramic membranes.</i> | |
| Name of Institution and adress | Belarussian State University BELARUS; 220030 Minsk, Nezavisimosti Ave. 4 | |
| Type of institution | University | |
| Institution profile | <ul style="list-style-type: none"> ▪ Mixed ionic-electronic conductors. ▪ Magnetic nano-oxides. ▪ Oxygen permeable ceramic membranes by tape casting. Materials for the solid oxide fuel cell. ▪ Catalytic reactor for partial oxidation of light hydrocarbons. Catalysts of Methane Conversion. ▪ Sol-Gel Technology for the preparation of nanosized oxide composites in form of films, ceramics and powders. ▪ Surface chemistry after Microwave plasma treatment. ▪ Electrochemical formation of ordered isolated metal nanowires. ▪ Aerosol spray pyrolysis techniques for the controlled synthesis of advanced ceramic nanopowders. | |
| Main subject of activity | KEY WORDS | |
| | Science | Education |
| Project description | The goal of this project is to perform complex studies aim at developing principles concerning the design of novel ceramic material for catalytic membrane reactors suitable for oxidative hydrocarbon conversion. Synthesize ceramic material should combine the properties of oxygen permeable membrane and a catalyst of the desired conversion processes. Investigation in the field of precision ceramic powders production will make it possible to proceed to the works purposeful at the creating a high performance membrane modules. Tape casting will provide precision ceramics preparation. | |
| Stage of project | Development has been started | |
| Type of sought partner | University Research Institute | |
| The area of expertise | <ul style="list-style-type: none"> ▪ The development of new effective membrane materials consisting of thin oxygen permeable coatings on the porous ceramic supports and stable under hard operating conditions, ▪ The development of a new approach for the preparation of oxygen permeable membranes by Tape Casting including the deposition on flat and tubular supports, ▪ The development of the appropriate porous ceramic support materials compatible with functional oxygen permeable, layers, ▪ The studying of the role of surface reaction kinetics in the whole process of oxygen transfer, ▪ The elaboration of techniques for the formation of ceramic membranes by tape-casting from low-cost materials. | |
| Contact person | Forename and surname | VLADIMIR PANKOV |
| | Contact details | Belarus, 220125 Minsk, Nezavisimosti Ave. 4 Tel./Fax +37 517 2095212 pankov@bsu.by |

ID no: NMP 36

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|--|--|---|---------------|
| Title of Project | <i>High-Strength And Corrosion-Resistant Materials And Products Based On Polymer-Modified Wood For Application In Building And Furniture Industries.</i> | | |
| Name of Institution and address | National Science Center "Kharkov Institute of Physics and Technology" UKRAINE; 61108 Kharkov, Academicheskaya Str. 1 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>Institute's focus</p> <p>Institute's areas of core competencies include the following:</p> <ul style="list-style-type: none"> ▪ Scientific support of Atomic Energetics of Ukraine and creation of safe nuclear sources of new generation; ▪ Elaboration of the stellarator concept of a fusion reactor and high power quasistationary plasma accelerators; ▪ Investigations of mechanisms of nuclear reactors, structure of nuclei, charged particles-matter interactions. Linear electron accelerators; ▪ Study of interaction of intense flows of charged particles, electromagnetic and ionizing radiation with substance. High current electron and ion accelerators; ▪ Renewable sources of energy and sustainable technologies. <p>Among other important areas of technologies are:</p> <ul style="list-style-type: none"> ▪ Vacuum metallurgy; ▪ Depositing coatings technologies ▪ Plasma and plasmochemical technologies ▪ Radiation and ion-beam technologies; ▪ Thermogradient technologies for carbon-carbon composite materials production. <p>Areas for technology offerings:</p> <ul style="list-style-type: none"> ▪ Atomic Industry; ▪ Industry of pure materials; ▪ Strengthening of materials for engineering industry; ▪ Materials for medicine; ▪ Energy and ecology; ▪ Agriculture; ▪ Water purification; ▪ Sterilization of instruments and materials. | | |
| Main subject of activity | KEY WORDS | | |
| | Atomic Energetics | Accelerators | Plasma fusion |
| Project description | <p>The products of the technology represent items made from polymer-modified wood. Polymer-modified wood is a new composite material obtained by means of volume preservation of non-valuable and low-quality woods (alder, poplar, aspen, birch, etc.) by synthetic liquid monomers or oligomers that are then polymerized as a result of the impact of an outer source of energy. Technological process makes it possible to use non-valuable and wide-spread woods and waste wood instead of expensive and rare woods. Specially designed dyes and additives to a monomer allow obtaining of wood of various colours and tints and by that means transforming non-valuable wood into exotic sorts such as ebony or mahogany.</p> <p>PMW is an environmentally friendly product. It is low-inflammable and possesses good heat-insulating and dielectric characteristics. As common wood it keeps the capacity to be mechanically processed. After polishing PMW has an ideally smooth surface that demonstrates the beauty of the natural wood. Products made from modified wood do not require any additional treatment – dyeing, surfacing, covering with mastic or waxing – as ordinary polishing is quite enough.</p> <p>Also, it is necessary to point out the advantage of the proposed materials for application in tropical conditions, as it possesses resistance to humidity, rotting caused by fungi and various insects that are wide-spread in tropical climate.</p> <p>The technology considers production of the following products:</p> <ul style="list-style-type: none"> ▪ At the initial stage of production (doors and their parts, windows, parquet floors) ▪ At the further development of the enterprise (furniture for bathrooms, equipment for production of the products made from PMW) <p>Advantages of wooden products made from PMW:</p> <ul style="list-style-type: none"> ▪ The technology makes it possible to obtain PMW with the programmed properties that are determined by the degree of polymerization. ▪ Increase in the strength characteristics of PMW. ▪ Low water- and moisture-absorption. ▪ Stable size and form. ▪ Chemical and biological resistance. ▪ Low inflammability. ▪ Increased durability and life-time. ▪ Attractive appearance. ▪ Environmentally friendly material. ▪ When using dyes – the possibility to obtain products of various colours and tints. ▪ No need in coating with protective varnish, the final treatment consists in polishing. ▪ Introduction into production low-quality wood and non-valuable sorts that will surely allow reduction of the lack of the raw material of a high quality. ▪ Possibility to apply products made from PMW in tropical climate. | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | Large Industry and Other: Investors for joint venture | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Technology team expertise ▪ vacuum technologies ▪ nuclear physics, ▪ solid state physics, ▪ Radiation technologies. | | |
| Contact person | Forename and surname | SERGII PUGACH | |
| | Contact details | Ukraine, 61108 Kharkov, Academicheskaya Str. 1 Tel. +38 057 3356843; Fax +38 057 3351889 pugach@kipt.kharkov.ua | |

ID no: **NMP 37**

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|---------------------------------------|--|---|
| Title of Project | <i>Laboratory test of Functional Degradation of Materials in Restorative Dentistry.</i> | |
| Name of Institution and adress | Medical University of Lublin POLAND; 20-081 Lublin, Karmelicka Str. 7 | |
| Type of institution | University | |
| Institution profile | Profiles are treatment and preventive of caries disease. Department conduct clinical investigation of caries disease and dental materials using in restorative lost tooth hard tissue due to caries disease and trauma. The second branch of research is examination of strength and durability of composite materials. | |
| Main subject of activity | KEY WORDS | |
| | Dentistry | Dental materials Laboratory tests |
| Project desription | <ul style="list-style-type: none"> ▪ New method of laboratory tests of dental materials using in conservative dentistry has been. ▪ The simulator of mastication enabling bite cycling simulation has been constructed. ▪ The mastication simulator enabling accelerated evaluation of dental fillings. | |
| Stage of project | Development has been started | |
| Type of sought partner | University | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Laboratory method of accelerated evaluation of fatigue failures of composite materials. ▪ Research of live time of biomechanical system. | |
| Contact person | Forename and surname | AGATA NIEWCZAS |
| | Contact details | Department of Conservative Dentistry Medical University of Lublin Poland, 20-081 Lublin, Karmelicka Str. 7 Tel./Fax +48 081 5287920; Mobile +48 607189068 agata.niewczas@am.lublin.pl |

ID no: NMP 38

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|---------------------------------------|--|--|-----------------------|
| Title of Project | <i>A New PVD-CVD Method of Deposition DLC Coatings on Medical Implants.</i> | | |
| Name of Institution and adress | Physical Technical Institute of the National Academy of Sciences of Belarus BELARUS; 220141 Minsk, Kuprevich Str. 1/3 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>Fundamental and applied researches in the area of developed new composite materials; laser, ion- and electron beam modification of steels and non-ferrous metals in order to tailoring their properties; development of vacuum plasma technology of obtaining of super hard coatings for cutting tools, heat-resistant coating for turbines. Last year the institute is determined by Belarusian government as head enterprise in the area of development of medical devices. Few laboratories have deal with tailoring special properties of titanium and cobalt alloys in order to manufacture medical implants possessing special properties. High attention is payed to develop bio compatible coatings deposited on to the implants. It was developed unique pulsed cathodic arc method owing to obtain diamond-like carbon coatings on artificial heard valves, endocorrectors of back bones, maxillofacial plates etc. The researches and developments are realized in the special institute department called PLASMOTEG Scientific Engineering Center. Several research groups of the Plasmoteg Center devote their activities in design medical diagnostic systems and bio sensors based on the nanoporous silicone and alumina platforms, in particular device for determination of cholesterol content in human blood.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | DLC coatings | Medical implant | Arc pulsed deposition |
| Project desription | <p>Pulsed cathodic arc burning in the presence of any hydrocarbon vapor at low pressure provide high deposit rate due to two sources of carbon specimens – cathode spots and decomposited hydrocarbon molecules. The combined method gives a possibility to deposit low stressed and high uniformed DLC coatings all over the substrate surface. Additional arc plasma source is used to dope DLC film with silver in form of nano size disks intercalated in amorphous carbon matrix. The embeded silver islands in carbon matrix insure long time of silver ion emission in the surroundings without to be case of so-called "silver–poisoning". The nanocomposite DLC:Ag materials possess excellent biocompatible and antibacterial properties as well as prevent tumor cell growth near the implant coated with the composite films. These performances have been revealed using laboratory animals and in vitro.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Int'l Organization | | |
| The area of expertise | Physical phenomena of film growth in vacuum from plasma; obtaining super hart films including nitrides and carbides of metal using arc plasma deposition; characterization of the film structure, composition, chemical bonds, research of their mechanical and tribological properties; design of special pulsed arc plasma sources and gas ion sources used for thin solid film deposition; technology elaborate for DLC coatings deposition on medical implants such as endocorrectors of back bones and special supporting net for skull bones. | | |
| Contact person | Forename and surname | MIKALAI CHEKAN | |
| | Contact details | Belarus, 22141 Minsk, Kuprevich Str. 1/3 Tel./Fax +37 517 2118371; +37 517 2835920 pec@bas-net.by ; www.plasmoteg.org.by | |

ID no: **NMP 39**

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|---------------------------------------|---|--|---------------|
| Title of Project | <i>Roman cement - new product on the Historical Restoration market.</i> | | |
| Name of Institution and adress | Institute of Glass, Ceramics, Refractory and Construction Materials Division of Mineral Building Materials POLAND; 31-683 Kraków, Cementowa Str. 1 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>The Institute is a state body with research and development activity over 50 years' experience in building materials: development of new building materials technologies and products, transfer of the developed production technologies to industry, research and exploitation of resources, certification and factory production control of building material.</p> <p>OMMB has the Research laboratories and Certification Centre with PCA Accreditation Certificates. The laboratories offer testing of mineral raw materials, building materials, industrial wastes and fuels, heat-insulating systems, reaction to flame of building materials.</p> <p>EXPERIMENTAL DEPARTMENT OF EQUIPMENT AND TECHNOLOGY</p> <p>The department performs small tonnage production of special cements, dry cement mixes (mortars and concrete) and manufactures laboratory testing equipment for cement, concrete, lime and aggregates according to PN and PN-EN standards.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Building materials and technology | Research and development | Certification |
| Project description | <p>Roman cement is a hydraulic binder widely used for building facade decorations in the 19th and the beginning of the 20th century i.e. in the time of rapid urban development connected with the Industrial Revolution.</p> <p>The cultural and historical value of buildings from this time, the "stone witnesses" of our history, the increase of social consciousness and the wish of respect for preserved historical substance together with the current building renovation trend cause a need for application of materials compatible with those originally used. The Division in Cracow, on the basis of the results of the research project ROCEM - Roman cement for restoration of building heritage, has developed a technology of Roman cement production in the rotary kiln efficient enough to satisfy the needs of the restoration market. This binder is manufactured using natural raw materials in order for the finished product to be in accordance with historical parameters.</p> | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | Int'l Organization Large Industry SME | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Renovation and restoration enterprises ▪ Redecoration companies ▪ Building companies ▪ R&D Institutes | | |
| Contact person | Forename and surname | GRZEGORZ ADAMSKI | |
| | Contact details | Poland, 31-983 Kraków, Cementowa Str. 1 Tel. +48 012 6837992; Fax +48 012 6897901 gadamski@immb.com.pl | |

ID no: **HEA 51**

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|--|--|---|----------------|
| Title of Project | <i>European health care standards expansion to Ukraine.</i> | | |
| Name of Institution and address | Railway Clinical Hospital UKRAINE; 79005 Lviv, I.Ohienko Str. 5 | | |
| Type of institution | Public Administration | | |
| Institution profile | Lviv Railway Clinic performs treatment for 600 persons simultaneously. Clinic consists of 20 treatment departments, adult and children polyclinic, female consultation, diagnostic department, ambulance with mobile reanimation capability. Clinic have angiography, nuclear resonance tomography, modern X-ray diagnosis. The Number of employees is 1500, 286 of which is a doctors. On time is expansion of endoscopic surgery, hernia angioplasty electronic case history and patient's card. Currently Clinic performs cooperation with Buffalo Clinic, USA within the international alliance program. | | |
| Main subject of activity | KEY WORDS | | |
| | Health care | Medical Technology | Medical Clinic |
| Project description | <ul style="list-style-type: none"> ▪ Improvement of medical services quality, new technologies in the health-care, learning and usage of European clinics experience. ▪ International experience exchange. | | |
| Stage of project | Feasibility study | | |
| Type of sought partner | University Consultancy | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Experience of difficult medical issues care. ▪ New technology application. | | |
| Contact person | Forename and surname | NATALIYA-OLHA PALIY | |
| | Contact details | Ukraine 79005 Lviv I.Ohienko Str., 5 Tel. +38 032 2262687, Fax +38 032 2262697 | |

ID no: HEA 52

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|--|--|--|----------------------|
| Title of Project | <i>Development of procedures and the adaptation of the RAMED EXPERT hardware/software system to triggering immune responses in the human body.</i> | | |
| Name of Institution and address | Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine UKRAINE; 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 | | |
| Type of institution | Research Institute | | |
| Institution profile | <ul style="list-style-type: none"> ▪ dynamics of mechanical and hydromechanical systems, launch vehicle systems, railway and motor transport; ▪ aerothermodynamics of power plants, spacecraft, and their subsystems; ▪ strength, reliability and optimization of the mechanical systems, launchers, and spacecraft; ▪ mechanics of the interaction of a rigid body with ionized media and electromagnetic radiation; ▪ systems analysis of the rocket-space technology development tendencies; ▪ the development of proposals for the Ukraine's National Space Program and other program documents on the rocket and space technology; ▪ analysis of advanced rocket and space systems and their operation; ▪ expertise of Space Programs and Projects, analysis of rocket and space technology tests results; ▪ technico-economic background of Space Programs. | | |
| Main subject of activity | KEY WORDS | | |
| | Background of Space Programs | Medicine | Microwave techniques |
| Project description | The results of a pilot study on bioinformational quasivaccination are presented; procedures and engineering hardware/software solutions are briefly considered. Examples of the use of the procedures and apparatus during a routine drug mass vaccination of students against flu are given. The results of evaluation tests of the procedures and apparatus in a group of students who did not undergo the drug vaccination are analyzed. The results of control studies of antibody production in the experimental group in comparison with arbitrary representatives of the vaccinated individuals are presented. The prospects for the development of this line in medicine are discussed. The mechanisms of the emergence and development of nonspecific adaptive responses of the human body to external bioinformational actions are studied. | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ radiophysics; ▪ electronics; ▪ medicine; ▪ microwave techniques. | | |
| Contact person | Forename and surname | ANATOLY YATSUNENKO | |
| | Contact details | Ukraine, 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 Tel./Fax: +38 056 3720639; +38 056 7135341 ramed@ukr.net ; www.itm.dp.ua | |

ID no: HEA 53

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|---------------------------------------|---|--|------------|
| Title of Project | <i>Biologically active compounds of probiotic bacteria and their use in biotechnology and medicine.</i> | | |
| Name of Institution and adress | Institute of Microbiology Belarus Academy of Sciences BELARUS; 220141 Minsk, Kuprevich Str. 2 | | |
| Type of institution | Research Institute | | |
| Institution profile | Institute of Microbiology is active in development and patenting the documentation packages for biopreparations. Institute is certified as the Biotechnological Centre that combines research and pilot-plant production of various products (food additives, bioactive supplements, probiotics, microbial fertilizers and plant biological control agents) with marketing activity to promote sales of microbial products. Collection of microorganisms, including bifido- and lactic acid bacteria, was entered by ordinance of the Council of Ministers of Belarus Republic into State Register of scientific objects estimated as National asset under formal designation Belarusian Collection of non-pathogenic microorganisms (Collection of type and valuable industrial non-pathogenic microbial cultures, Institute of microbiology BNAS). | | |
| Main subject of activity | KEY WORDS | | |
| | New Technologies | Innovative Products | Probiotics |
| Project description | <p>Major attention is focused on development of bioactive preparations and biomaterials on the basis of cells and cellular components, mainly glycoconjugates, of probiotic microorganisms. Research is centered on production of a new class preparations and biomaterials for medicine possessing high biological activity. Belarus team has an expertise in isolation and identification of probiotic bacteria producing bioactive compounds (enzymes, organic acids, extracellular proteins and polysaccharides). Methodology mastered by the team leader and members: isolation, purification and assay of biological activity of protein-polysaccharide complexes, glyco- and phospholipids of probiotic microorganisms and determination of microbial glycoconjugates structure impact on host immune response.</p> <p>The Lab took participation in international research projects, such as:</p> <ul style="list-style-type: none"> ▪ "Maintenance, study and development of Culture Collection of microorganisms in Armenia, Ukraine and Belarus" (the INTAS grant 93-3512) ▪ «Bacterial glycoconjugates in modern healthcare - new extraction approach for immunostimulants and probiotics» (VISBY-01720/2004) ▪ "Glycoconjugates from Bifidobacterium in prevention and treatment of celiac disease" (VISBY-2007) ▪ "Freezing of microorganisms - objects of new biotechnologies" funded by General Secretariat of Funds of basic Research of Belarus and Ukraine (the grant B07K-024) ▪ "Research of antigens of microorganisms - probiotics" funded by General Secretariat of Funds of basic Research of Belarus and Russian Federation (the grant X08P-072/2008) <p>Team leader Dr. Galina Novik was published over 160 scientific papers and granted 5 National patents. Dr. Galina Novik was the team leader in scientific collaboration with the international projects with the IITD PAN, Lund University, Institutes of Russian and Ukraine Academies of Sciences.</p> | | |
| Stage of project | Initial idea | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | <p>Branches of research:</p> <p>Replenishment of collection stock with microbial cultures – potential biotechnological objects, identification of bacteria, filamentous and yeast-like fungi, investigation on physiology of microorganisms representing diverse taxonomic groups;</p> <ul style="list-style-type: none"> ▪ Maintenance of viable microbial cultures in collection depository using long-term preservation methods; ▪ Classification of information on deposited cultured, foundation of data bank describing microbial collection stock, consulting on identification and preservation of microorganisms, depositing of microbial strains for patent procedure, provision of cultures upon request. <p>Collection of non-pathogenic microorganisms guarantees maintenance of viability in over 1200 microbial cultures, including 350 bacterial cultures, 45 bacteriophages, 270 strains of filamentous fungi, 160 strains of yeast-like fungi, over 80 probiotic bacterial cultures isolated from different sources. Valuable industrial microbial strains may be applied for synthesis of enzymes (pectinases, lipases, cellulases, esterases, etc), protein, carotenoids, other bioactive substances; as components of ferments intended for ensiling vegetable materials; for manufacturing preventive-therapeutic preparation raising immunity in humans and animals; production of biological agents to control plant pathologies; degradation of aromatic xenobiotics polluting environment.</p> <p>Main products: Preventive therapeutic probiotic preparations. New strains of probiotic microorganisms derived by an adaptive selection technique according to criteria of biological activity.</p> | | |
| Contact person | Forename and surname | GALINA NOVIK | |
| | Contact details | Republic of Belarus, 220141 Minsk, Kuprevich Str. 2 Tel./Fax +37 517 2678620; +37 517 2674766 galina_novik@mbio.bas-net.by; www.mbio.bas-net.by | |

ID no: **HEA 54**

| | | | |
|---------------------------------------|--|---|----------|
| Title of Project | <i>Development of GP (general practice) in the context of primary health care.</i> | | |
| Name of Institution and adress | Belarussian Medical Academy of Post-Graduate Education BELARUS; 220013 Minsk, Brovki Str. 3/3 | | |
| Type of institution | University Research Institute Public Administration | | |
| Institution profile | Post-Graduate medical education, research work, international cooperation in medicine, new health technologies assessment, evidence-based medicine, health care management, primary health care. | | |
| Main subject of activity | KEY WORDS | | |
| | Education | Research | Medicine |
| Project desription | The objective of the project is to implement the system of GP in health care system of Belarus. The recommended roll out of general practice based primary care requires a mix of measures, including investments in financial and human resources; expansion of GP education and training; improvement of medical information; and a critical examination of the responsibilities and tasks of GPs and nurses. | | |
| Stage of project | Initial idea Definition phase | | |
| Type of sought partner | University Research Institute Public Administration | | |
| The area of expertise | Post-Graduate medical education, primary health care, GP system, international cooperation in medicine, new health technologies, health care management. | | |
| Contact person | Forename and surname | ANNA LYSENKO | |
| | Contact details | Tel./Fax +37 529 9171815 anna.lysenko@libero.it ; www.belmapo.by | |

ID no: **HEA 55**

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|--|--|---|-----------------|
| Title of Project | <i>Juvenile pregnancy as a sociomedical problem. Actual for Eastern Europe.</i> | | |
| Name of Institution and address | Grodno Medical State University; Yanka Kupala Grodno State University BELARUS; 230009 Grodno, Gorkogo Str. 80 | | |
| Type of institution | University | | |
| Institution profile | The Grodno State Medical University was founded in 1958. It keeps a prestigious place among the medical higher educational establishments of Belarus. High quality teaching guaranties students high level of theoretical knowledge as well as practical skills and experience. Thousands of graduates have already evaluated high quality of medical education obtained in the Grodno State Medical University. Currently more than 2500 students attend classes at the university, among them 350 international students representing 26 countries worldwide. | | |
| Main subject of activity | KEY WORDS | | |
| | Education | International Cooperation | Social Activity |
| Project description | The purpose of the work is to examine the prevalence and characteristics of children born by 14-18 year old mothers; to carry out a comparative analysis of socio-medical problems, to assess the health status of mothers and the health of newborns. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | | | |
| Contact person | Forename and surname | NATALIA CHVORIK or YANINA LAKHOVICH | |
| | Contact details | Department of Obstetrics and Gynecology, Grodno Medical State University Belarus, 230009 Grodno, Gorkogo Str. 80 Faculty of Physical Training Yanka Kupala Grodno State University Belarus, 230023 Grodno, Ozheshko Str. 22 Tel./Fax +37 515 2431621 chvorik@mail.ru | |

ID no: HEA 56

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|---------------------------------------|--|---|-------|
| Title of Project | <i>Laboratory on Biological Testing of Chemical Compound, Drugs and Bionanostructures.</i> | | |
| Name of Institution and adress | State Research and Innovation Center "Institute of Pharmacology and Biochemistry of the National Academy of Sciences of Belarus" BELARUS; 230017Grodno, BLK Str. 50 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>Major research vectors of Institute of Pharmacology and Biochemistry:</p> <ul style="list-style-type: none"> ▪ To develop a number of amino acids-containing medical drugs and other natural biologically active compounds ▪ To study in the field of molecular mechanism of development liver and thyroid gland diseases, carcinogenesis and pathological conditions related to deficiency of micronutrients, stress, alcohol abuse ▪ To develop methods of diagnostics and human diseases corrections ▪ To develop and produce test-systems for medical application | | |
| Main subject of activity | KEY WORDS | | |
| | Health | Thyroid diseases | Drugs |
| Project desription | <p>We are offer to create of modern high- equipped Belarusian-Polish laboratory of pre-clinical testing of bioactive compounds, drugs and nanopreparations using cell cultures and lab animals. It is supposed a usage of standard methods of drug testing and development of new high-specialized tests. There are areas, personals and partly equipments. Investment and personal training are wanted.</p> | | |
| Stage of project | Initial idea Development has been started | | |
| Type of sought partner | University Research Institute SME | | |
| The area of expertise | Health, Medicine, Pharmacology. | | |
| Contact person | Forename and surname | LILIYA NADOLNIK | |
| | Contact details | Department of Bioregulators, Institute of Pharmacology and Biochemistry of National Academy Sciences of Belarus Belarus, 230017 Grodno, BLK Str. 50 Tel./Fax +37 515 2437761; +37 515 2434121 lnadolnik@tut.by | |

ID no: **HEA 57**

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|---------------------------------------|--|--|-----------------|
| Title of Project | <i>Biomechanical researches of sports movements and walking efficiency of people with locomotorium's dysfunction.</i> | | |
| Name of Institution and adress | The State Scientific Institution "The Research Center of Resources Saving Problems of the National Academy of Sciences of Belarus" BELARUS; 230023 Grodno, Tyzenhauz Sq. 7 | | |
| Type of institution | Research Institute | | |
| Institution profile | <ul style="list-style-type: none"> ▪ Scientific researches in the field of natural and engineering science; ▪ Designing & manufacturing of orthopedic goods; ▪ Development of measuring biochemical devices; ▪ Scientific soft designing. | | |
| Main subject of activity | KEY WORDS | | |
| | Biomechanics & orthopaedics | Nano composite material | Energy – saving |
| Project desription | <p>The technique of the helping form people with locomotorium's dysfunction to acquire a habit of efficiency of walking and sports movements will be elaborated and tried out.</p> <p>The pedobarometric devices and a special CAD access system will be used for:</p> <ul style="list-style-type: none"> ▪ Selection and designing of orthopedic insoles or footwear; ▪ Acquisition of skill of efficiency of walking and sports movements. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute SME | | |
| The area of expertise | The project idea is interesting for instance: biomechanics, doctor orthopedist, parasport's and sports medicine, producer of orthopedic goods. | | |
| Contact person | Forename and surname | MIKHAIL IHNATOUSKI | |
| | Contact details | SSI "RCRSP NAS of Belarus" Belarus, 230023 Grodno, Tyzenhauz Sq. 7 Tel./Fax +37 515 2720100; +37 515 2738185 Mii_by@mail.ru | |

ID no: HEA 58

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|---------------------------------------|--|---|
| Title of Project | <i>Highly sensitive non-invasive imaging and analysis technology for early diagnosis of heart diseases.</i> | |
| Name of Institution and adress | Glushkov Institute of Cybernetics of National Academy of Science of Ukraine UKRAINE; 03680 Kyiv, Glushkova Str. 40 | |
| Type of institution | Research Institute | |
| Institution profile | Cybernetics and information theory, information technologies and its applications, computer sciences, software development, mathematical modeling of complex processes in economics, ecology, biology, Application of IT in medicine, processing of biomedical data, advanced computerized ECG and other medical signals, magnetocardiography. | |
| Main subject of activity | KEY WORDS | |
| | Non-invasive diagnostics | Magnetocardiography |
| | | Heart diseases |
| Project description | <p>Development a totally non-invasive and risk-free multi-channel system for measurement of the heart magnetic field based on SQUID technology, operating in unshielded environment. Development of mathematical algorithms programs and medical diagnostic criteria for detection of risk of the most dangerous hear diseases . Conduction of middle-to-large scale clinical study based on principles of good clinical practice (CGP).</p> <p>Justification: cardiac diseases are the leading cause of death in population in European countries. Diagnostic non-invasive tests to detect cardiac dysfunction at early stage of the disease are very much desirably. Based on result of recent studies we can assume that the magnetocardiography (MCG) as a contact-free method is an excellent to perform studies for such purposes.</p> <p>Various clinical investigations, involving around 1500 patients finished in 5 universities hospitals in Germany, 3 university hospitals in Holland, 2 university hospital China, 1 national institute of cardiology in Ukraine.</p> <p>More than 50 international publications presented. Ability to detect myocardial ischemia with accuracy more than 80% even in patients with normal results of routine tests was proved (including animal study).High performance in risk of arrhythmia detection and non-coronarogenic heart diseases diagnostic also confirmed. Large-scale clinical study based on GCP is needed to introduce MCG in clinical practice.</p> <p>Expected impact: Multi-channel supersensitive system for measurement of the heart magnetic field, diagnostic criteria and schemes for early detection of myocardial ischemia and prediction of cardiovascular events. It will allow to optimize treatment and prophylaxis of cardiovascular diseases and decrease the rate of cardiac death.</p> <p>Aknowledgments: This proposal in supported by Science and Technology Center in Ukraine (STCU) Project 4719 (project manager Dr. Volodymyr Sosnytsky).</p> | |
| Stage of project | Full exploitation | |
| Type of sought partner | Large Industry | |
| The area of expertise | Electrocardiography, magnetocardiography, electrophysiology, diagnostic of cardiac diseases. | |
| Contact person | Forename and surname | ILLYA CHAIKOVSKY |
| | Contact details | Ukraine, 03680 Kyiv, Glushkova Str. 40 Tel./Fax +38 044 5013072-71 illya_6@hotmail.com |

ID no: **HEA 59**

| | | |
|---------------------------------------|---|---|
| Title of Project | <i>Grid in medicine. Telemedicine. Telecommunication. Medical information data systems.</i> | |
| Name of Institution and adress | International Clinic of Rehabilitation UKRAINE; 01135 Kiev, Chornovola Str. 28/1 (5) | |
| Type of institution | Other: Clinic of Rehabilitation | |
| Institution profile | Paediatric neurology | |
| Main subject of activity | KEY WORDS | |
| Project description | By experience of carrying out of the advisory and diagnostic help in clinics of the world to 90 percent of patients medical aid is limited to consultations and inspections. Only near 10 percent of cases patients are hospitalised for the further inspection and treatment. Introduction of means of a telemedicine assists qualitative increase of medical aid - preliminary transfer of the diagnostic information and conclusions about a condition of the patient in many cases can replace transportation of the patient for detailed diagnostics or treatment. Means of information technologies began possible to spend in a mode of real time remote inspections, medical consultations, consultations and simultaneously together with the electronic case record to transfer the laboratory and diagnostic information, to a photo, pictures practically without quality loss. New possibilities by transfer on the big distances of great volumes of medical data of static and dynamic character have given the chance to formulate a problem of granting of the qualified advisory help irrespective of a place of stay of patients and doctors-advisers, including from the different countries and even continents. | |
| Stage of project | | |
| Type of sought partner | | |
| The area of expertise | | |
| Contact person | Forename and surname | VOLODYMYR AVRAMENKO |
| | Contact details | Ukraine; 01135 Kiev, Chornovola Str. 28/1 (5) Tel./Fax +38 044 4982520 awia57@mail.ru |

ID no: HEA 60

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|---------------------------------------|--|---|-----------------|
| Title of Project | <i>Features of the lifestyle and health of women 45 - 60 years in Grodno, Bialystok and ...Krasnoyarsk.</i> | | |
| Name of Institution and adress | Yanka Kupala Grodno State University BELARUS; 230023 Grodno, Ozheshko Str. 22 | | |
| Type of institution | University | | |
| Institution profile | <p>Yanka Kupala State University of Grodno (YKSUG) has its origin as the State Teacher Training Institute founded in 1940. This became the present State University in 1978 and is now one of the most important educational, scientific, and cultural centers of the Republic of Belarus. More 1000 teachers and research scientists work in 65 different departments. Approximately 47% are Professors and Doctors of Science, and Candidates of Science.</p> <p>Research activity across all 9 Faculties - Physics and Engineering, Mathematics, Biology and Ecology, Philology, Physical Culture, Psychology and Pedagogics, History and Culture, Economics and Management, and Law—is at the core of the University's academic work. A number of new research developments are launched every year. Research studies covering more than 100 topics were conducted in 1998. Every year University scientists generate nearly 600 publications. The University organizes a number of national and international scientific conferences every year. The University possesses modern educational and research facilities.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Education | International Cooperation | Social Activity |
| Project desription | <p>For several years Faculty of Physical Training has cooperated with universities in Russia, Lithuania and Poland on the study of lifestyles of different segments of a population. We offer cooperation in joint scientific research on the subject of a way of life, a quality of life and disease prevention among the teaching staff of universities (women 45-60 years old).</p> <p>Researches suggest not only the study of the relationship of the basic components of lifestyle with the help of a special unified form, but also the development of preventive actions to improve the health of faculty members who participate in research projects. In future we intend to search a funding from the EU and other grant sources.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ health ▪ diagnosis health ▪ hygiene ▪ higher education | | |
| Contact person | Forename and surname | NATALIA SHPAKOVA | |
| | Contact details | Faculty of Physical Training Yanka Kupala Grodno State University Belarus, 230023 Grodno, Ozheshko Str. 22 Tel./Fax +37 515 2754908 http://ffc.grsu.by ; shpakov@grsu.by | |

ID no: **HEA 61**

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|---------------------------------------|--|---|-----------------|
| Title of Project | <i>Monitoring of formation of focused on health behaviour of student's youth of high schools in Grodno and Bialystok. Comparative aspect.</i> | | |
| Name of Institution and adress | Yanka Kupala Grodno State University BELARUS; 230023 Grodno, Ozheshko Str. 22 | | |
| Type of institution | University | | |
| Institution profile | <p>Yanka Kupala State University of Grodno (YKSUG) has its origin as the State Teacher Training Institute founded in 1940. This became the present State University in 1978 and is now one of the most important educational, scientific, and cultural centers of the Republic of Belarus. More 1000 teachers and research scientists work in 65 different departments. Approximately 47% are Professors and Doctors of Science, and Candidates of Science.</p> <p>Research activity across all 9 Faculties - Physics and Engineering, Mathematics, Biology and Ecology, Philology, Physical Culture, Psychology and Pedagogics, History and Culture, Economics and Management, and Law—is at the core of the University's academic work. A number of new research developments are launched every year. Research studies covering more than 100 topics were conducted in 1998. Every year University scientists generate nearly 600 publications. The University organizes a number of national and international scientific conferences every year. The University possesses modern educational and research facilities.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Education | International Cooperation | Social Activity |
| Project desription | <p>The basic purpose of the scientific project is the definition and estimation of the condition of nutrition, level of knowledge, life style and physical activity of students in various social and economic circumstances in Grodno and Bialystok. The comparative statistical analysis of these parameters of condition of youth from Belarus and Poland has been done.</p> <p>For realization of the project we offer:</p> <ul style="list-style-type: none"> ▪ the joint research with the help of the unified techniques; ▪ the research of the level of physical condition and physical working capacity; ▪ the realization of questionnaire design for the estimation of an actual nutrition of student groups (250-300 people are in every group) from high schools in Grodno and Bialystok; ▪ the statistical analysis of the influence of physical activity, nutrition and healthy behavior on the state of youth' health. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ health ▪ diagnosis health ▪ hygiene ▪ sports medicine ▪ higher education | | |
| Contact person | Forename and surname | ANDREI SHPAKOU | |
| | Contact details | Faculty of Physical Training Yanka Kupala Grodno State University Belarus, 230023 Grodno, Ozheshko Str. 22 Tel./Fax +37 515 2754601; +37 515 2754908 Mobile +37 529 7831034 http://ffc.grsu.by/Kafedry/sportmed ; shpakoff@tut.by | |

ID no: HEA 62

| | | | |
|---------------------------------------|--|--|-----------------|
| Title of Project | <i>The comparative characteristic of physical development, physical activity, structure of actual nutrition and mediaconsumption of the pupils of primary schools in Grodno, Kaunas and Krasnoyarsk.</i> | | |
| Name of Institution and adress | Yanka Kupala Grodno State University BELARUS; 230023 Grodno, Ozheshko Str. 22 | | |
| Type of institution | University | | |
| Institution profile | <p>Yanka Kupala State University of Grodno (YKSUG) has its origin as the State Teacher Training Institute founded in 1940. This became the present State University in 1978 and is now one of the most important educational, scientific, and cultural centers of the Republic of Belarus. More 1000 teachers and research scientists work in 65 different departments. Approximately 47% are Professors and Doctors of Science, and Candidates of Science.</p> <p>Research activity across all 9 Faculties - Physics and Engineering, Mathematics, Biology and Ecology, Philology, Physical Culture, Psychology and Pedagogics, History and Culture, Economics and Management, and Law—is at the core of the University's academic work. A number of new research developments are launched every year. Research studies covering more than 100 topics were conducted in 1998. Every year University scientists generate nearly 600 publications. The University organizes a number of national and international scientific conferences every year. The University possesses modern educational and research facilities.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Education | International Cooperation | Social Activity |
| Project description | <p>Purpose: scientific substantiating and application of health monitoring system; forming of knowledge at pupils on the basic components of a healthy lifestyle (Grodno, Kaunas and Krasnoyarsk).</p> <p>Objectives:</p> <ul style="list-style-type: none"> ▪ To develop a unified comprehensive program of research on the hygienic assessment of life style of younger pupils for substantiating the selection and application of preventive measures and educational programs to form a way of life of children. ▪ To carry out a comparative analysis of morphofunctional state of an organism and the level of awareness of pupils on the basic components of life style to assess the impact of risk factors that affected it negatively. ▪ To identify limiting factors of lifestyle and determine the degree of their manageability; to plan recreational programs at the level of population groups. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ diagnosis health ▪ hygiene ▪ education | | |
| Contact person | Forename and surname | SWIATLANA PALUBINSKAYA | |
| | Contact details | Department of Sport Medicine and Rehabilitation Yanka Kupala Grodno State University Belarus, 230023 Grodno, Ozheshko Str. 22 Tel./Fax +37 515 2754601 http://ffc.grsu.by/Kafedry/sportmed ; ksportmed@grsu.by | |

ID no: **HEA 63**

| | | | |
|---------------------------------------|--|--|-----------------|
| Title of Project | <i>Comparative characterisation of dynamic changes of physical activity of future teachers of the physical culture in universities of Grodno and Bialystok.</i> | | |
| Name of Institution and adress | Yanka Kupala Grodno State University BELARUS; 230023 Grodno, Ozheshko Str. 22 | | |
| Type of institution | University | | |
| Institution profile | <p>Yanka Kupala State University of Grodno (YKSUG) has its origin as the State Teacher Training Institute founded in 1940. This became the present State University in 1978 and is now one of the most important educational, scientific, and cultural centers of the Republic of Belarus. More 1000 teachers and research scientists work in 65 different departments. Approximately 47% are Professors and Doctors of Science, and Candidates of Science.</p> <p>Research activity across all 9 Faculties - Physics and Engineering, Mathematics, Biology and Ecology, Philology, Physical Culture, Psychology and Pedagogics, History and Culture, Economics and Management, and Law—is at the core of the University's academic work. A number of new research developments are launched every year. Research studies covering more than 100 topics were conducted in 1998. Every year University scientists generate nearly 600 publications. The University organizes a number of national and international scientific conferences every year. The University possesses modern educational and research facilities.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Education | International Cooperation | Social Activity |
| Project desription | <p>The aim of the research is to study the physical state of students and the influence of physical exercises that make up the program of sports disciplines on the level of physical preparedness of students at physical training departments of institutions of higher education in Grodno and Bialystok. The main objectives of the study:</p> <ul style="list-style-type: none"> ▪ to carry out the comparative analysis of proportionality of the amount of sporting and pedagogical disciplines according to semesters and years of study in order to create the optimal level of physical activity of students; ▪ to examine the physical preparedness of students of both universities in the first and second years of study ▪ to study the common influence of physical activity on the physical qualities of strength, rapidity, endurance of students in the 1-2 years of education during the educational process; ▪ to improve the new forms and methods of organizing of educational process at physical training departments and make suggestions to improve the curriculum of disciplines. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ health ▪ diagnosis health ▪ higher sport education | | |
| Contact person | Forename and surname | ANZHALIKA SUKHAVA | |
| | Contact details | Department of Sport Medicine and Rehabilitation Yanka Kupala Grodno State University Belarus, 230023 Grodno, Ozheshko Str. 22 Tel./Fax +37 515 2754601 http://ffc.grsu.by/Kafedry/sportmed ; ksportmed@grsu.by | |

ID no: **HEA 64**

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|---------------------------------------|---|---|--------------------|
| Title of Project | <i>MINSTREL – (Medical Interregional Storage and Resource Locator).</i> | | |
| Name of Institution and adress | Alteris Sp. z o.o. POLAND; 41-902 Katowice, PCK Str. 6/3 | | |
| Type of institution | SME | | |
| Institution profile | System and solution provider for diagnostic imaging units and multicenters. Teleradiology provider, installed in over 100 locations in Poland. Currently preparing to extend activity to Ukraine and Lithuania. | | |
| Main subject of activity | KEY WORDS | | |
| | Teleradiology | RIS/PACS | System Integration |
| Project desription | European and American experience in creation of national medical data exchange networks shows that the only real way to create working solution is to build a middleware (data exchange bus) with resource locator and security administration functionality. | | |
| Stage of project | Initial Idea | | |
| Type of sought partner | Univeristy Public Administration Other: Hospitals | | |
| The area of expertise | Alteris has been leading RIS/PACS solution provider in Poland since 2004. Experience covers also several enterprise grid multicenter solutions. Currently development of regional and interregional networks of medical data exchange. | | |
| Contact person | Forename and surname | MAREK PILCH – KOWALCZYK | |
| | Contact details | POLAND; 41-902 Katowice, PCK Str. 6/3 Tel./Fax +48 032 6093240; +48 032 6093249 mpk@alteris.pl ; www.alteris.pl | |

ID no: HEA 65

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|---------------------------------------|--|---|-----------|
| Title of Project | <i>Equipment for Pressurized Planar Electrochromatography.</i> | | |
| Name of Institution and adress | Medical University of Lublin POLAND; 20-081 Lublin, Staszica Str. 6 | | |
| Type of institution | University | | |
| Institution profile | Department of Physical Chemistry Medical University of Lublin Our group is involved in analysis of biologically active compounds in dosage forms and biological (environmental too) samples using liquid chromatography methods. We are involved in development of a new chromatographic mode named as pressurized planar electrochromatography (PPEC). Application of the mode into laboratory practice, especially to analyze compounds of biological activity, is the purpose of our investigations. | | |
| Main subject of activity | KEY WORDS | | |
| | Medical care | Research and development | Education |
| Project desription | <p>Pressurized Planar Electrochromatography (PPEC) is a relatively new liquid chromatography mode proposed in 2004 which can be applied for separation of different types of compounds of pharmaceutical and biomedical origin. We are involved in development of a construction of equipment for this mode. We have constructed a few prototypes which are used in our department for separation and analysis of many types of compounds.</p> <p>Principle of the mode is based on application of a solution of the mobile phase driven into movement by electroosmotic effect relative to the stationary phase, adsorbent layer, of the chromatographic plate for separation of any compound mixture.</p> <p>The PPEC process performed with our equipment is characterized by few main advantages relative to conventional thin-layer chromatography (TLC) such as higher performance of the separating system, considerably shorter time of experiments. In addition PPEC process is performed in two phase system - mobile and stationary phases are involved in the process what is contrary to conventional thin-layer chromatograph and makes the mode is more similar to high performance liquid chromatography (HPLC) than to thin-layer chromatography (TLC).</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Consultancy SME Other: Manufacturer of equipments for pharmaceutical and biomedical analysis | | |
| The area of expertise | Liquid chromatography – high performance liquid chromatography (HPLC), thin-layer chromatography (TLC), high performance thin-layer chromatography (HPTLC), planar electrochromatography (PEC), pressurized planar electrochromatography (PPEC). Investigations of retention and separation selectivity mechanisms in the chromatographic systems mentioned above. Optimization of mixture separations especially of compounds of biological activity for HPLC, TLC/HPTLC, PPEC modes. Correlation of retention parameters and biological activity. Development of equipment for liquid chromatography techniques, e.g. horizontal DS chambers for planar chromatography, prototype for pressurized planar electrochromatography. | | |
| Contact person | Forename and surname | TADEUSZ DZIDO | |
| | Contact details | Department of Physical Chemistry, Medical University of Lublin Poland, 20-081 Lublin, Staszica Str. 6 Tel./Fax +48 081 5357377; +48 081 5357350 tadeusz.dzido@umlub.pl; www.umlub.pl | |

ID no: HEA 66

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|--|---|---|------------|
| Title of Project | <i>The cooperation project between the Institute of Cosmetology and Health Care in Białystok (Białystok, Poland) and the Lithuanian Academy of Physical Education (Kaunas, Lithuania).</i> | | |
| Name of Institution and address | The Institute of Cosmetology and Health Care in Białystok POLAND; 15-875 Białystok, Krakowska Str. 9 | | |
| Type of institution | University | | |
| Institution profile | With our world class school facility and an outstanding training atmosphere promoted by highly competent academic teachers from the three biggest universities of Białystok, students are given a guarantee to fulfill an ambitious curriculum (including, among other subjects, anatomy, physiology, dietetics, dermatology, general chemistry, physiotherapy, cosmetic raw materials, professional cosmetology, the foundations of aesthetics and make-up, foreign languages and the foundations of economics and finance) and acquaint with the theoretical knowledge and practical skills necessary in their profession. We are currently 1,200 students and co-operate with: Janka Kupala State University in Grodno, Belarus; Lithuanian Academy of Physical Education in Kowno, Lithuania; Krasnoyarsk State Medical Academy in Krasnoyarsk, Russia; The Department of Physics and Astronomy, University of California in Irvine; USA; Jagiellonian University in Krakow, Poland. | | |
| Main subject of activity | KEY WORDS | | |
| | Education | Research | Innovation |
| Project description | One of the social problems arising in Poland and also in other countries is that of ageing society in terms of health and sociology. The demographic data shows that the elderly outnumber the population of the young. Simultaneously, there has been noted one of the lowest factors of unemployment. The foremost aim of our project is to, by education, raise qualifications of the broadly understood medical services both on Polish and Lithuanian side. Moreover, it will provide an innovative medical offer (new workplaces, transborder mobility of employees) and also new professionals enhancing the quality of life of the ageing society). | | |
| Stage of project | Initial idea | | |
| Type of sought partner | University | | |
| The area of expertise | The strategic aim of the project is to support and promote the informative society propelling the development of the transborder area, which in return will increase prospective employment on both sides of the border, improve the educational offer including the flexibility of employees who aim to fulfill expectations of the labour market, raise their qualifications and professional competence, and put academic knowledge into business practices. The Institute of Cosmetology and Health Care in Białystok and the Lithuanian Academy of Physical education in Kaunas carry out the research and development works along with the academic centres in Byelorussia and Russia. In the framework of the transborder cooperation we carry out studies on elaborating the scientific principles shaping health habits and principles of operation of the health care and welfare systems. Experts of hygiene, shaping health care systems, health promotion, pedagogy, sociology, psychology, environment protection as well as other scientific branches all participate in the study. The foremost aim of this study is to, apart from obtaining the results, strengthen and progressively develop next door relations as well as to reach agreements and accept deals necessary to perform other projects of transborder cooperation, which will help to level obstacles and differences that may separate border areas, and stimulate their development. So as to increase the number of available information and access to the results of the study, improve communication between transborder societies, scientists, lecturers and students, we have created the remote teaching - learning system. | | |
| Contact person | Forename and surname | EWA KLESZCZEWSKA | |
| | Contact details | The Institute of Cosmetology and Health Care in Białystok Poland, 15-875 Białystok, Krakowska Str. 9 Tel./Fax +48 085 7499430 biuro@wskosm.pl; www.wskosm.pl | |

ID no: HEA 67

| | | | |
|---------------------------------------|--|--|------------|
| Title of Project | <i>The cooperation project between the Institute of Cosmetology and Health Care in Białystok (Białystok, Poland) and other academic institutions and companies, designed to enable the transfer of knowledge.</i> | | |
| Name of Institution and adress | The Institute of Cosmetology and Health Care in Białystok POLAND; 15-875 Białystok, Krakowska Str. 9 | | |
| Type of institution | University | | |
| Institution profile | With our world class school facility and an outstanding training atmosphere promoted by highly competent academic teachers from the three biggest universities of Białystok, students are given a guarantee to fulfill an ambitious curriculum (including, among other subjects, anatomy, physiology, dietetics, dermatology, general chemistry, physiotherapy, cosmetic raw materials, professional cosmetology, the foundations of aesthetics and make-up, foreign languages and the foundations of economics and finance) and acquaint with the theoretical knowledge and practical skills necessary in their profession. We are currently 1,200 students and co-operate with: Janka Kupala State University in Grodno, Belarus; Lithuanian Academy of Physical Education in Kowno, Lithuania; Krasnoyarsk State Medical Academy in Krasnoyarsk, Russia; The Department of Physics and Astronomy, University of California in Irvine; USA; Jagiellonian University in Krakow, Poland. | | |
| Main subject of activity | KEY WORDS | | |
| | Education | Research | Innovation |
| Project description | The Institute of Cosmetology and Health Care in Białystok as a member and founder of the Polish Easter Medical Cluster and other partners (universities, companies) will use the established e-learning platform to extend and strenghten cooperation on the ground of the transfer of the knowledge from the academic research and development centres to the business sector. These actions aim at significant stimulation of the economy development of Podlasie and other areas, extention of the range of the new educational forms and products and most importantly the usage of the potential provided by, inter alia, transborder cooperation. | | |
| Stage of project | Initial idea | | |
| Type of sought partner | University | | |
| The area of expertise | Transfer of knowledge and innovative solutions from science to the business is the key to economic development in region. E-learning platform will act as a node through which the exchange of knowledge will be able to take place. This stimulates the development of science by the increase in demand by business for new solutions. | | |
| Contact person | Forename and surname | EWA KLESZCZEWSKA | |
| | Contact details | The Institute of Cosmetology and Health Care in Białystok Poland, 15-875 Białystok, Krakowska Str. 9 Tel./Fax +48 085 7499430 biuro@wskosm.pl; www.wskosm.pl | |

ID no: HEA 68

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|---------------------------------------|--|--|------------|
| Title of Project | <i>Utilization of probiotic bacteria for development of raw fermented meat products.</i> | | |
| Name of Institution and adress | Chair of Catering Technology and Food Hygiene POLAND; 02-787 Warszawa, Nowoursynowska Str. 159c | | |
| Type of institution | University | | |
| Institution profile | <p>Professor Danuta Kołożyn-Krajewska, President of Polish Food Technologists' Society, Dean of Inter-Faculty of Commodity Science and Chief of Catering Technology and Food Hygiene Chair at Warsaw University of Life Sciences, is a member of New York Academy of Science, member of Polish Academy of Science (Secretary of Committee of Food Sciences) and member of Polish Committee of IUFOST. The main scientific area: food hygiene, food microbiology (especially predictive food microbiology), food quality assurance, Risk Analysis. She has an extensive functional expertise in the area of food quality and safety, obtained by providing a HACCP training in food industry, and conducting the studies on food safety in Poland. She managed at the country level a research project INRA: FLAIR-FLOW EUROPE IV (Framework Program V). On behalf of Faculty she was responsible person in Leonardo da Vinci Project - PAQSSE (Preventist in Agrofood Quality, Security, Safety and Environment) and for FOODSAFE project. Additionally she was involved in Concerted Action project of 5th FP "European Union Risk Analysis Information Network" (EU-RAIN) (2003-2005) – partner and member of Co-ordination Committee.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | food | safety | technology |
| Project desription | <p>Probiotic bacteria strains are successfully used in production of processed milk products, and certain juices, however, their use has not been observed in production of raw ripening meat products. In the case of meat products, raw products are deemed to be and actually are a suitable medium for the development of probiotic microorganisms. Scientific projects are being conducted on a European and even world scale. However, the health safety criterion should be of primary importance with respect to the use of probiotics. The application of certain bacteria strains in raw meat fermented products is the aim of the project. Technological and technical parameters will be evaluated together with microbiological and sensory quality of meat products.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Consultancy SME | | |
| The area of expertise | We have expertise in meat technology, probiotic food technology, food microbiology, chemical, microbiological and sensory analysis of food. | | |
| Contact person | Forename and surname | DANUTA KOŁOŻYN - KRAJEWSKA | |
| | Contact details | Faculty of Human Nutrition and Consumer Sciences, SGGW Poland, 02-787 Warszawa, Nowoursynowska Str. 159c Tel./Fax +48 022 8438711 danuta_kolozyn_krajewska@sggw.pl | |

ID no: HEA 69

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|---------------------------------------|--|---|
| Title of Project | <i>The Medicine of Poland Southern-East Cluster – initiator of innovations in healthcare.</i> | |
| Name of Institution and adress | The Medicine of Poland Southern – East Cluster POLAND; 33-100 Tarnów, Słoneczna Str. 32 | |
| Type of institution | <p>The Medicine of Poland Southern-East Cluster function in Healthcare Sector ,our membership is drawn from all areas associated with health: medical clinics, research institutions, ,Universities, local government agencies, IT companies ,PR agencies, health resorts &SPA, distributors of medical equipment, touristic companies, regional media, banks. (Over 40 companies).</p> <p>The core objective are:</p> <ul style="list-style-type: none"> ▪ to deliver better and more efficient healthcare services thanks to Information and Communication Technologies (ICTs), ▪ provide health care for regional population, ▪ promote health tourism in the region, ▪ creating the cooperation network, ▪ transferring of knowledge related to the innovative technologies and solutions, ▪ in medicine, ▪ joint cooperation in the international projects and studies to apply for the, ▪ international funds. <p>Due to mutual cooperation we help healthcare companies in the Southern Poland to grow and develop.</p> | |
| Institution profile | Other: medical cluster | |
| Main subject of activity | KEY WORDS | |
| | Telemedicine and telecare | Innovative technologies |
| | Clustering | |
| Project desription | <p>One of our key strategies is to develop uniform IT system , including telecare and telemedicine technologies. Thanks to uniform IT platform, we plan to introduce with co-operation with one of our partners - Kamssoft a personal health record system. Doctors would be able to access patients' medical records more easily, get immediate access to test results from the laboratory, and deliver prescriptions directly to pharmacists.</p> <p>We also established The Regional Research Center ("Park Zdrowia") in Tarnów, which will be cooperating innovations within cluster.</p> | |
| Stage of project | Development has been started | |
| Type of sought partner | University Research Institute Int'l Organization Large Industry SME | |
| The area of expertise | We are interesting in all innovations which could be applied in healthcare institutions. | |
| Contact person | Forename and surname | KINGA SOKOŁOWSKA |
| | Contact details | Poland, 33-100 Tarnów, Słoneczna Str. 32 Tel./Fax +48 014 6271840 ksokolowska@medycynapolska.pl |

ID no: HEA 70

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|---------------------------------------|--|--|----------------------|
| Title of Project | <i>Radically new medical technology for assessing and correcting the human functional condition.</i> | | |
| Name of Institution and adress | Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine UKRAINE; 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 | | |
| Type of institution | Research Institute | | |
| Institution profile | <ul style="list-style-type: none"> ▪ dynamics of mechanical and hydromechanical systems, launch vehicle systems, railway and motor transport; ▪ aerothermodynamics of power plants, spacecraft, and their subsystems; ▪ strength, reliability and optimization of the mechanical systems, launchers, and spacecraft; ▪ mechanics of the interaction of a rigid body with ionized media and electromagnetic radiation; ▪ systems analysis of the rocket-space technology development tendencies; ▪ the development of proposals for the Ukraine's National Space Program and other program documents on the rocket and space technology; ▪ analysis of advanced rocket and space systems and their operation; ▪ expertise of Space Programs and Projects, analysis of rocket and space technology tests results; ▪ technico-economic background of Space Programs. | | |
| Main subject of activity | KEY WORDS | | |
| | Background of Space Programs | Medicine | Microwave techniques |
| Project description | <p>Modern medicine uses diagnostic, preventive and therapeutic methods, procedures and means to measure the electrophysical parameters of the human body and promptly correct them. An efficient noninvasive action on the reactive structures and regulatory systems of the human body with the aim of triggering its adaptive function, self-regulation and regeneration eventually results in self-recovery. These problems have been successfully solved using the proposed medical technology.</p> <p>The essence of the proposed technology consists:</p> <ul style="list-style-type: none"> ▪ in combining methods and approaches of traditional medicine and some lines of Oriental medicine; ▪ in a comprehensive understanding of the progress of a disease from the standpoint of both modern physiology and unconventional ideas; ▪ in interpreting the obtained results using a biomedical model of the human body specially developed for this purpose; ▪ in combining a diagnostic complex (that objectively determines the human body condition) and a therapeutic complex (that implements diagnostic prescriptions). | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ radiophysics ▪ electronics ▪ medicine ▪ microwave techniques | | |
| Contact person | Forename and surname | ANATOLY YATSUNENKO | |
| | Contact details | Ukraine, 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 Tel./Fax: +38 056 3720639; +38 056 7135341 ramed@ukr.net ; www.itm.dp.ua | |

ID no: HEA 71

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|--|--|--|----------------------|
| Title of Project | <i>New noninvasive medical technology for treatment of diabetes.</i> | | |
| Name of Institution and address | Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine UKRAINE; 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 | | |
| Type of institution | Research Institute | | |
| Institution profile | <ul style="list-style-type: none"> ▪ dynamics of mechanical and hydromechanical systems, launch vehicle systems, railway and motor transport; ▪ aerothermodynamics of power plants, spacecraft, and their subsystems; ▪ strength, reliability and optimization of the mechanical systems, launchers, and spacecraft; ▪ mechanics of the interaction of a rigid body with ionized media and electromagnetic radiation; ▪ systems analysis of the rocket-space technology development tendencies; ▪ the development of proposals for the Ukraine's National Space Program and other program documents on the rocket and space technology; ▪ analysis of advanced rocket and space systems and their operation; ▪ expertise of Space Programs and Projects, analysis of rocket and space technology tests results; ▪ technico-economic background of Space Programs. | | |
| Main subject of activity | KEY WORDS | | |
| | Background of Space Programs | Medicine | Microwave techniques |
| Project description | <p>The medical technology is based on stimulating the insulin production mechanisms, and its therapeutic agent is superlow-intensity millimeter-wave electromagnetic radiation.</p> <p>The technology is implemented using original apparatus:</p> <ul style="list-style-type: none"> ▪ diagnostic system to assess the functional condition of human organs and tissue systems; ▪ multichannel therapeutic system to simultaneously act on multiple biologically active points and skin projections of organs with millimeter-wave electromagnetic radiation. <p>The implementation of this medical technology provides biological feedback in the course of the therapeutic action.</p> | | |
| Stage of project | Full exploitation | | |
| Type of sought partner | Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ radiophysics ▪ electronics ▪ medicine ▪ microwave techniques | | |
| Contact person | Forename and surname | ANATOLY YATSUNENKO | |
| | Contact details | Ukraine, 49005 Dnipropetrovsk, Leshko-Popelya Str. 15 Tel./Fax: +38 056 3720639; +38 056 7135341 ramed@ukr.net ; www.itm.dp.ua | |

ID no: ENV 76

| | | | |
|---------------------------------------|---|--|-----------------|
| Title of Project | <i>The Nature Protection and Energy Saving Aspects of the green-blue algae utilization.</i> | | |
| Name of Institution and adress | Kremenchuk Mykhaylo Ostrogradskiy State Polytechnic University UKRAINE; 39600 Kremenchuk, Pershotravneva Str. 21 | | |
| Type of institution | University | | |
| Institution profile | The educational process in KSPU is provided by: the Electromechanics, Energy-Saving and Computer Technologies Institute, 8 faculties, 32 departments. Training in 33 specialities is carried out according to a multi-stage system: junior specialist, bachelor's degree, specialist's degree, master's degree in the fields of: management, ecology, geodesy, cartography and land-utilization, applied mathematics, transport technologies, engineering mechanics, metallurgy, welding technologies, electro-technology, electronic devices, computer systems, automation and control, computer-based engineering, electro-mechanics, economics and business undertakings, law, culture. Post-graduate and doctorate students are trained in 13 specialities at 21 departments. | | |
| Main subject of activity | KEY WORDS | | |
| | Technic sciences | Humanity Sciences | Nature Sciences |
| Project description | <p>The offered way of biogas reception from green-blue algae (cyanobacteria) differs from its analogues by type of used substratum and quantitative structure (high substance of the methane due to reduction of hydrogen sulphide and carbon dioxide). The technical result is reception of mix of gases – more than 700 ml from 1 dm³ of substratum during a week at the optimum temperature 20-30°C – with qualitative-quantitative structure that received in cameral conditions of a product: CH₄ (≈65%), CO₂ (≈30%), H₂S, N₂, O₂ и H₂ (≈ 1% each).</p> <p>Prospects of using of the cyanobacteria for reception of biogas in conditions of Kremenchuk water basin (the area of water mirror is 2250 km²) can be estimated by means of following figures: gathering of seston in "flowering spots" in quantity up to 50 kg/m³ from the volume of 828 million m³ waters of shallow water (depth up to 2 m;) its biomass will make 18.4 % of the area of a reservoir 4,14x10⁷ t during the vegetative period. Having subjected this biomass to the fermentation during methane "fermentation" it is possible to receive up to 28.98 million m³ biogas (appr. 18.837 million m³ of methane), that is equivalent 20 thousands tons of oil or 17 thousand tons of diesel fuel.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Int'l Organization | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Environment Protection ▪ Energy Sources Saving | | |
| Contact person | Forename and surname | MYKHAYLO ZAGIRNYAK | |
| | Contact details | Ukraine, 39600 Kremenchuk, Poltava region, Pershotravneva Str. 21 Tel. +38 053 6636219; Fax +38 053 6636000 secr@polytech.poltava.ua; http://www.polytech.poltava.ua | |

ID no: ENV 77

| | | | |
|--|---|--|-------------------|
| Title of Project | <i>Intensification of the fermentation of waste in biogas plants by electromagnetic stimulation of methane-producing bacteria.</i> | | |
| Name of Institution and address | Tavria State Agrotechnological University UKRAINE; 72315 Melitopol, B. Khmelniysky Str. 18 | | |
| Type of institution | University | | |
| Institution profile | <p>For today the Tavria State Agrotechnological University is a regional university center that has 7 faculties, 33 departments, 6 colleges, 3 research institutes which provide the obtaining of higher education at 30 specialities. Over 12 thousand of students studies in University. Researches of scientists of University aimed at solving current problems and issues related to guaranteed food security and environmental security of the southern region of Ukraine. Among the areas of basic research activities are:</p> <ul style="list-style-type: none"> ▪ development of new low power and environmentally safe technologies of growing, harvesting, processing and long-term storage of crops, vegetables and fruits, animal products, etc.; ▪ development of technological and technical fundamentals of providing fuel and energy independence of the southern region of Ukraine by the wide use of energy sources of plant origin; ▪ creation and implementation of efficient and economical machine-tractor units on the basis of a new modular power tools, as well as the family of new domestic tractors; ▪ modeling of processes in agricultural production, development of new working units of agricultural machines and tools based on the use of information technology design, applied mathematics and computer technology; ▪ improve existing and develop new competitive technologies and equipment aimed at providing resources and saving energy in the electrification and automation of agricultural production; ▪ development of scientific and applied foundations of organizational transformation and economic relations to socially oriented market conditions in agriculture. | | |
| Main subject of activity | KEY WORDS | | |
| | Biogas | Intensification | Electrotechnology |
| Project description | <p>At the present stage of development of biotechnology the intensification of the process of methane fermentation of waste, which results in an increase in speed of processing and, consequently, improves the economic efficiency of biogas plants, becomes important. Based on the results of scientific research in the field of electrotechnology and taking into account processes occurring at the level of biological cells, solution to the problem of increase in productivity of methane-producing bacteria is proposed. It's based on the impact of low-energy informational electromagnetic fields of microwave range on these bacteria. The use of low-energy electromagnetic fields to influence methane-producing anaerobic bacteria relates to the least energy consumption, with a maximum activating and stimulating effect on the informational processes of microbial life. Optimal use of electromagnetic fields on the conditions of productivity and efficiency of methane production is provided by the automatic control system of technological process on the basis of non-destructive testing of biological processes in the methane reactor under conditions of incomplete information. Expected results by the project completion - an automated system for electromagnetic activation and stimulation of methane-producing bacteria in biogas plants.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Laboratory of Biophysics ▪ Biotechnology | | |
| Contact person | Forename and surname | ANDRII RYZHKOV | |
| | Contact details | Ukraine, 72315 Melitopol, Zaporizkzhya region 50 Tel./Fax +38 067 9980015 andriy.ryzhkov@gmail.com | |

ID no: **ENV 78**

| | | |
|---------------------------------------|---|--|
| Title of Project | <i>Technology "System" BS" = passive alternative energy.</i> | |
| Name of Institution and adress | BUSICO Busłowicz Jerzy POLAND; 01-904 Warszawa, Aspekt Str. 63/9 | |
| Type of institution | SME | |
| Institution profile | <ul style="list-style-type: none"> ▪ Innovation building technology ▪ Project new building of innovation technology ▪ International co-operation | |
| Main subject of activity | KEY WORDS | |
| | Innovation | Building |
| | | Technology |
| Project description | <p>Nowadays energy – efficient technologies can replace threatening for the environment landfills of phosphogypsum waste into the construction plaster. The "System" BS" processes construction plaster in combination with the polystyrene foam into ecological, material – saving and energy – efficient wall and floor building elements.</p> <p>In The "System" BS" passive housing, buildings of the public usefulness, farms and agriculture products storages are being built from these elements. The prototype series were designed and produced and pilot detached houses, terrace housing estates and the 4-storeys building were erected in the "System" BS".</p> | |
| Stage of project | | |
| Type of sought partner | Research Institute Consultancy SME Other: Investor | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Processing waste phosphogypsum on building plaster ▪ Production of building elements from plaster ▪ The device to production of building elements from plaster ▪ Projecting from plaster passive houses cities ▪ Building of ecological passive houses from plaster ▪ Exploitation of housing estates from plaster huses | |
| Contact person | Forename and surname | JERZY BUSŁOWICZ |
| | Contact details | Tel./FAX +48 079 3322344 jurebus@yahoo.pl |

ID no: ENV 79

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|--|---|--|------------|
| Title of Project | <i>Environmentally Friendly Technology Of Crops Cultivation.</i> | | |
| Name of Institution and address | Zaporizhzhya National Technical University UKRAINE; 69063 Zaporizhzhya, Zhukovskogo Str. 64 | | |
| Type of institution | University | | |
| Institution profile | <p>Zaporizhzhya National Technical University is the oldest and best high educational institution of region. Human skilled potential of region is formed by the graduates of Zaporizhzhya National Technical University, mainly.</p> <p>There are skilled specialists in development of radio engineering and informative systems, digital processing of signals, electrodynamics and automatic control at the departments of Informatics and Radio Engineering of Zaporizhzhya National Technical University. The example of this is department's active part in hindrance protection systems of modern radar stations, in particular 36D6. There are specialists in industries of machine engineering, constructing and production of radio electronic apparatus at other departments of ZNTU.</p> <p>The team of Radio Engineering department has approached to the given project with a great volume of theoretical and experimental research on classification of the plant objects present in Ukraine.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Education | Research | Consulting |
| Project description | <p>The proposed technology is based on the idea of plant recognition with their division into two classes: useful and weeds. A posterior information obtained as the result of the recognition is used to realize adaptive control of the end effectors of an agricultural machine. At the chemical method of weeding, the herbicides are applied only to the plots with the weeds. This method allows not applying the herbicides to the plots with either no crop at all or where the crops are damaged (dried) or they belong to the useful species. While realization of the plant recognition with their division not into the two but into several classes it is possible to disperse different herbicides depending on sorts of the weeds. It improves the application of the herbicides to a considerable degree. Such approaches allow substantial reduction of the amount of the herbicides, which are used in crop cultivation. Reduction of herbicides consumption improves an ecological situation both on fields, and in places of their production.</p> <p>The aim of this project is to research and develop a technique for plant recognition to distinguish between useful and harmful (weeds) plants using simple tools to be used in the future with the agricultural machines. Now we have good results (more 85% accuracy) of laboratory experiments of classification of patterns, which obtained on field conditions.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Int'l Organization Large Industry | | |
| The area of expertise | From the Polish participants of project we expect specialization in area of agricultural engineering, precision farming, and experience in introduction of agricultural technologies. Both research organizations and industrial sector are welcomed. | | |
| Contact person | Forename and surname | DMYTRO M. PIZA | |
| | Contact details | Ukraine, 69063 Zaporizhzhya, Zhukovskogo Str. 64 Tel./Fax +38 061 7644662 dpiza@zntu.edu.ua | |

ID no: **ENV 80**

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| Title of Project | <i>Energysaving technologies for small and middle business developed by Gas Institute of National Academy of Sciences of Ukraine.</i> | |
| Name of Institution and address | Gas Institute of National Academy of Sciences of Ukraine UKRAINE; 03113 Kyiv, Degtyarivska Str. 39 | |
| Type of institution | Research Institute | |
| Institution profile | <ul style="list-style-type: none"> ▪ Gas processing and utilization on the motor transport and power plants ▪ Energy saving in heat-and-power engineering and heat supply ▪ Industrial environmental discharge purification and recycling of wastes ▪ Energy-saving technologies for industrial furnaces heating ▪ Energy-saving technologies in metallurgy and material production ▪ Protective atmosphere processing ▪ Control equipment | |
| Main subject of activity | KEY WORDS | |
| | NMP | Eco-energy |
| Project description | <p>It will be presented essentials of developed technologies for small and middle business.</p> <ul style="list-style-type: none"> ▪ Economical technology of nitrogen-hydrogen atmosphere production ▪ Small-sized protective atmosphere generators on the basis of natural gas (development of small-sized protective atmosphere generators for the furnaces of metal and alloys thermal-chemical treatment) ▪ Nanoflaky oil spillage sorbent on the base of thermoexfoliated graphite ▪ Mobile unit for thermoexpanded graphite production as oil adsorbent with capacity of 15-30 m³/h or more. <p>(Unit provides lowest cost oil adsorption of oil spillage. Creation of a mobile unit allows to generate adsorbent immediately at a place of an accident. It is possible to create container type and even handle unit (for difficult to access places).</p> <ul style="list-style-type: none"> ▪ Carbonless (softmagnetic) iron powders production by reduction with hydrogen re-circulation and regeneration. <p>(Applying of gas-re-circulation allows to decrease the whole hydrogen consumption for the process near to stoihiometric level)</p> <ul style="list-style-type: none"> ▪ Natural gas conversion in a bed of a fresh reduced sponge iron. <p>(No reformer; No catalyst; Low investment; Easy operation; Good quality of sponge iron)</p> <ul style="list-style-type: none"> ▪ Energy-saving technology of lime production and burners for it realization ▪ Burner with operated flame length for tubular rotating furnaces & for shaft furnaces ▪ Modernization of brick roasting tunnel kilns with 15-25 reduction of fuel consumption | |
| Stage of project | Feasibility study Full exploitation | |
| Type of sought partner | Research Institute SME | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Ecotechnologies activity against oil-hydrocarbon pollution ▪ SME for metals thermal treatment ▪ Powder metallurgy and softmagnetic industry ▪ Mini metallurgical enterprises ▪ Building materials production | |
| Contact person | Forename and surname | ALEXANDER KHOVAVKO |
| | Contact details | Tel./Fax +38 044 4533392 ahova2005@ukr.net ; ingas.org.ua |

ID no: **ENV 81**

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|---------------------------------------|--|--|--------------|
| Title of Project | <i>Guidance on Development of the Master Plane for Rational Water Use and Protection.</i> | | |
| Name of Institution and adress | International Sakharov Environmental University BELARUS; 22009 Minsk, Dolgobrodskaya Str. 23 | | |
| Type of institution | University | | |
| Institution profile | <ul style="list-style-type: none"> ▪ hydrological calculations and modeling with data and without data, including annual flow, maximum and minimum flows, suspended, bottom and dissolved sediments, temperature and ice characteristics; ▪ ecological justification of the hydraulic structures in river basins, including disposal on surface with taking into account ecosystem approach; ▪ environmental examination of projects and audit of river basins; ▪ water management budgets (reported and perspective) for river basins, including calculation of environmental, sanitary and free flows, evaporation, surface and ground waters, demands of industry, agriculture, municipal and other, demography, etc.; ▪ Master Plans for Water Resources Utilization and Protection of Environment. | | |
| Main subject of activity | KEY WORDS | | |
| | Ecological hydrology | Water management budgets | Master Plans |
| Project desription | <p>Basic contents of this work consist of:</p> <ul style="list-style-type: none"> ▪ methods of estimation of the modern state of water resources of country on quantitaive and qualitative Indexes; ▪ methods of estimation of water consumption up-to-date and in prospect with taking into account of forecasts of economic development of country in river basins; ▪ method of calculation of ecological flow on the criteria of admissible withdrawal and regulation of flow; ▪ method of calculation of sanitary flow on criteria of admissible pollution; ▪ methods of calculations of reported and perspective water management budgets; ▪ concrete examples of calculations on one of the rivers of Belarus and Poland. | | |
| Stage of project | Initial idea Feasibility study Development has been started | | |
| Type of sought partner | University Research Institute Consultancy Public Administration | | |
| The area of expertise | Hydrological, ecological, economic and water management problems. | | |
| Contact person | Forename and surname | BORIS FASHCHEVSKY | |
| | Contact details | Belarus, 220086 Minsk, Kalinovskogo Str. 48-99 Tel./Fax +37 517 2835577 | |

ID no: ENV 82

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|---------------------------------------|---|--|--|
| Title of Project | <i>Gyro-Wheel Wave Electric Power Plant (GW2EP2).</i> | | |
| Name of Institution and adress | Alliance NEW ENERGY of UKRAINE UKRAINE; 04071 Kiev, Obolons'ka Str. 41 | | |
| Type of institution | Other: R&D Public Organization | | |
| Institution profile | <p>The Alliance embodies reputed public men, scientists and specialists that are professionally deal with the problems of energy-saving and effective energy-resources exercising. We have established the team that assists both to ordinary citizens and enterprises to introduce energy-efficient and energy-saving technologies by force of the concrete investment projects' realization.</p> <p>We strive towards the growing-up generation's formation of economic attitude to the Nature in general and energy as its concurrent. Our competitions, exhibitions and trade-fairs are directed at Ukrainian youth fostering of conscious and economic attitude to the natural resources.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Save Energy | Renewable Energy | New Effective Technologies and Devices |
| Project description | <p>The Seas and Oceans cover over 70% of the Earth's surface and are its largest energy storage system. Efforts to accept the 2000TWh/year of available wave energy, and then convert the energy into useful and acceptable variant of the energy for a customer encounter with serious engineering obstacles.</p> <p>The Gyro-Wheel Wave Electric Power Plant (GW2EP2) based on gyro-frequency technology and its application to get energy from the sea/ocean waves. It's a new advanced technology to convert mechanical sea waves into electricity with high efficiency.</p> <p>The main objective of the Project is to build a plant that will provide with ecologically clean and cheap electric power of the customers in coastline areas of the Black Sea and Baltic Sea.</p> <p>The task of the Project integrates 3 sub-topics, which are united by one scientific base that has been developed by our institution:</p> <ol style="list-style-type: none"> 1) Conversion of the sea wave power into electric power 2) Accumulating of the extra power 3) Inverting of the accumulated power and providing with this one of customers and sending the extra electricity to the global/local power grid. <p>The system combines two sub-systems:</p> <ul style="list-style-type: none"> ▪ a gyro based device – Gyro-Mechanical System (GMS) - which is used to get wave influences over floating platform ▪ a Floating Platform (FP) system to be used to mount the gyro device and to be placed onto the sea/ocean surface. <p>It will allow to cope with different influences having from multi-direction of the waves.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Large Industry SME | | |
| The area of expertise | | | |
| Contact person | Forename and surname | MYKOLA AGEIENKO | |
| | Contact details | Tel./Fax +38 044 4170338 www.newenergy.org.ua | |

ID no: ENV 83

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| Title of Project | <i>Sociology as an instrument of providing sustainable development.</i> | | |
| Name of Institution and address | The Institute of sociology of the National Academy of Sciences of the Republic of Belarus BELARUS; 220072 Minsk, Surganova Str. ½ | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>Our organisation is a leading national sociological structure in contemporary Belarus.</p> <p>Our main activities:</p> <ul style="list-style-type: none"> ▪ conducting sociological research (national samples) ▪ studying of theoretical problem of sociology ▪ working out sociological methodology ▪ public opinion polls ▪ surveys of the market, mass-media and Health Care system ▪ working out of recommendations for the Belarusian social policy | | |
| Main subject of activity | KEY WORDS | | |
| | Sociology as an instrument of providing sustainable development | Sustainability Resources Capital (human, environmental, economic) | |
| Project description | <p>Until recently, economic growth had been considered as the only (at least as the most significant) indicator of development. Initially, industrialization and the processes caused by it resulted in a rapid development of science, techniques and technologies. As a result we faced sufficient changes of forms and fastness of living, rapid change of production technologies, the highest level of informatization and technologization, improvement of equipment of labour etc. In short, we lived in a modern developed society and we faced unprecedented speed of economic development.</p> <p>Some time later we faced with a rate of negative consequences of economic growth: a negative stability of natural systems, a growing inequality between people on the planet, political instability and, finally, economic recession. Nowadays we deal with the degradation of natural and social capital of the world, and it is an inevitable consequence of our previous life style, values and models of behavior. What should we do to optimize the negative trends?</p> <p>Firstly, the environment, probably, should be seen a system, notably as a complex of economical, ecological and human resources. System is a number of components with stable connections and interdependency between them. Parts fulfill definite functions and they should conform to each other in such a way, that system would permanently be in a state of some kind of dynamic balance which is an optimal balance of component elements, a result of equal distribution of power between them.</p> <p>Such balance of functions is possible if all the parts are the subsystems of wider system whole – system in toto – and practices in realization of one or another function must be sufficiently included in more extensive system context. That is to say that implementation of every concrete function must take into consideration the trends of development of system in whole and it must strictly correspond with needs of total system at every stage of its progress. If this condition isn't met, inner structural order of system breaks, and it reduces to a lack of coordination. As a result, normal functioning of system becomes impossible and a necessity of corrective actions appears because system is no more able to resolve a conflict at the expense of its domestic resources.</p> <p>In the context of the above-stated, we can conclude that nowadays world system (ecology + economy + human being = environment) is off-balanced and is fraught with serious consequences. It means that the way of development we move on today, doesn't prove its value and we need to find new strategies, guidelines, programs and this time it should be a policy based on the interests of the whole system and taking into consideration interests of all its components (to provide sustainability). We ought to harmonize and match economic, ecological and human resources, to restore system's equilibrium and to take measures to prevent further system failures. We should admit that many efforts are being realized by different sciences. A scope of new environmentally favourable technologies have already been created. But, in our opinion, it's not enough to provide a long-term sustainability. We need to work out a new strategy of development, more human- and environmentally sensible, which would join all elaborations, new ideas and technologies in the frame of a holistic paradigm to coordinate inter-scientific and international effort in achieving sustainable development. And sociology can be a ground for construction of such universal development strategy.</p> | | |
| Stage of project | Definition phase | | |
| Type of sought partner | University Research Institute Consultancy Public Administration | | |
| The area of expertise | Interdisciplinary research joining efforts of economists, sociologists, ecologists, political scientists in order to provide an integral systematic knowledge about environment to develop all kinds of resources (human, ecological and economical) in a sustainable way. | | |
| Contact person | Forename and surname | SVIATLANA KROITAR | |
| | Contact details | Belarus, 220028 Minsk, Y. Luchiny Str. 46–167 Tel./Fax +37 529 2842774; mobile +37 529 5231342 pramen_newlife@yahoo.com | |

ID no: ENV 84

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|---------------------------------------|---|--|-----------|
| Title of Project | Potential, utilization and cultivation of energy crops like renewable energy source in eastern Europe. | | |
| Name of Institution and adress | University of Life Sciences in Lublin POLAND; 22-400 Zamość, Szczepieszka Str. 102 | | |
| Type of institution | University | | |
| Institution profile | <p>The Agricultural University in Lublin is one of the oldest institutions of higher agricultural education in post-war Poland. It dates back to 1944 when its two oldest faculties were established by the Polish government at the University of Maria Curie-Skłodowska, namely the Agrarian and the Veterinary Faculties (now: the Faculty of Agriculture and the Faculty of Veterinary Medicine).</p> <p>Eleven years later our University became an independent scientific-didactic and research institution and was named The Higher School of Agriculture. On September 23, 1972 the name has been changed into the Agricultural University.</p> <p>The Agricultural University in Lublin is a state university, supervised by the Ministry of National Education. It is a legal entity with its own emblem, standard and official seal and has the right to grant its own honours: a medal and distinction. Like other state schools, it follows the Higher Education Act from September 12, 1990 and other legal regulations concerning higher schools, as well as its own charter.</p> <p>At the moment the university employs 1689 people including 774 academic staff. Among them, 216 are independent researchers.</p> <p>So far 36 thousand students have graduated from the Agricultural University in Lublin. At present about 12000 students are studying at the University's 7 Faculties with 12 major subjects and 31 degree specialisations.</p> <p>The basic organizational units of the University are faculties, established for didactic and scientific purposes as well as for education of academic staff.</p> <p>At the moment there are 7 Faculties: Agriculture (established in 1944), Veterinary Medicine (1944), Biology and Animal Breeding (1953), Horticulture (1970), Production Engineering (1970), Food Sciences and Biotechnology (2005) and Agriculture Sciences (2006).</p> <p>The Faculty of Agricultural Sciences in Zamosc was established on 1 September 2006 on the basics of Institute of Agricultural Sciences in Zamosc. The Institute was integral part of Agricultural Faculty in Lublin. One of the main science activities is renewable energy sources investigations. The Faculty branch named Agrobusiness and Agricultural Production together with its Field Research Station and experts (agronomists, economists, environment engineers) have huge possibilities to conduct science research. Nowadays several species of energy crops are under specific research. Those plants are <i>Salix viminalis</i>, <i>Sida hermaphrodita</i>, <i>Helianthus tuberosus</i>, two grass species <i>Miscanthus sinensis</i> and <i>Spartina pectinata</i> and others known like "traditional" crops. The person in charge of the those activities is professor Bogdan KOŚCIK.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Renewable energy sources | Biomass | Potential |
| Project description | <p>The idea of a project is to develop sustainable model of production (cultivation), transport, utilization of energy crops both perennial dedicated "energy crops" as well as traditional crops cultivated for food industry. In model should be taken into account:</p> <ul style="list-style-type: none"> ▪ energy efficiency factor ▪ profitability of renewable energy production from biomass compared to other "green" energy sources like wind, solar or water energy ▪ sustainable supply chain model ▪ environmental implications concerned with energy crops utilization ▪ and many more... | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Public Administration Large Industry SME | | |
| The area of expertise | <p>The latest and in the same way the most important issue is prepared by workers from Faculty of Agricultural Sciences in Zamość document named "Biomass for energy purposes potential analyzes of Lubelskie province".</p> <p>The Faculty branch named Agrobusiness and Agricultural Production together with its Field Research Station and experts was realizing and at present still working with projects, in the field of renewable energy sources, co-financed from Polish Ministry of Science, domestic and international foundations, associations as well as European Union structural funds.</p> | | |
| Contact person | Forename and surname | KAJETAN KOŚCIK | |
| | Contact details | Poland, 22-400 Zamość, Szczepieszka Str. 102 Tel./Fax +48 084 6772757 kkoscik@wnr.edu.pl | |

ID no: ENV 85

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|--|---|--|-----------------------------|
| Title of Project | <i>Renewable based polygeneration systems.</i> | | |
| Name of Institution and address | Białystok Technical University POLAND; 15-351 Białystok, Wiejska Str. 45 C | | |
| Type of institution | University | | |
| Institution profile | <p>The Faculty of Mechanical Engineering is one of the oldest faculties founded on the grounds of private Evening Engineering College. Since its establishment 7078 students have graduated from the Faculty. The Faculty is entitled to confer doctoral degrees in such scientific disciplines as mechanical engineering (since 2005) and machine building and operation (since 1989). In both disciplines the Faculty has been running doctoral courses. Since 2006 the Faculty has been also granted permission to confer post-doctoral (DSc) degree in the discipline of machine building and operation. Currently the Faculty is applying for the permission to confer post-doctoral degrees in the field of mechanical engineering. Scope of scientific research work conducted by the Faculty staff:</p> <ul style="list-style-type: none"> ▪ walking robots and aerial vehicles, ▪ high speed rotating machines, ▪ diagnostics and reliability of machines, ▪ tribological processes of structural materials working in different environments, ▪ vehicle braking systems, ▪ operation processes of agricultural and forest machinery, ▪ ecological refrigerating systems, ▪ solar air-conditioning systems, ▪ biomaterial engineering for bone implants, ▪ joint and tooth organ biotribology, ▪ biomechanics of bone joining – interactions in bone-implant contact zone, ▪ mechanics of heterogenous and anisotropic materials, ▪ brittle and ductile crackings of structural elements, ▪ experimental methods and mathematical modeling in thermomechanics, ▪ damage cumulation caused by material fatigue and creep. <p>The staff of the Mechanical Engineering Faculty have been taking active part in the activities of twelve committees and sections in the institutes of Polish Academy of Sciences, Polish Engineers and Technicians Association as well as fifteen other associations and learned societies. In addition the faculty staff belong to international organizations and associations including American Mathematical Society, American Institute of Aeronautics and Astronautics, European Structural Integrity Society, Air-Conditioning and Heat Pumps, Technical Options Committee of the United Nations Environmental Programme (UNEP), International Association of Engineering Geology, Royal Aeronautical Society, International Society of Biomechanics, Society of Industrial and Applied Mathematics.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Refrigeration and air-conditioning and heat pumps | Thermal engineering | Renewable sources of energy |
| Project description | <p>The project deals with application of low-temperature heat as a motive energy for refrigeration and air-conditioning systems for production ion of cold as well as for CCHP systems with application of ORC systems for generation of electricity, heating water and cold. The refrigeration systems are based on ejection technologies. Is also important that due to present EU legislation measures the application of low-emission technologies is important. The project covers also problems of application of natural working fluids in refrigeration, air-conditioning, heat pump and ORC systems. The own technology of decomposition of synthetic fluids (CFC, HCFC and HFC) used in refrigeration and heat pump technologies has been also proposed for cooperation. Application of natural fluids requires also improvement of energy efficiency of the systems. For the case of refrigeration systems one of the most effective way is the reduction of the throttling process by means of application of the two-phase ejector. Also the electrohydrodynamic methods of heat transfer improvement and oil separation are proposed for cooperation.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Int'l Organization Large Industry | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Heat transfer enhancement by means of passive and active (electrohydrodynamic) techniques; ▪ Improving efficiency of refrigeration, air-conditioning and heat pumps systems: application of ejection technologies; ▪ Application of low-emission fluids in refrigeration, heat pump and ORC cycles; ▪ Solar based polygeneration systems; ▪ Solar ejection air-conditioning systems; ▪ Electrostatic oil separation in refrigeration and heat pump systems; ▪ District cooling systems based on waste heat from classic steam power co-generation plant; ▪ Heat recovery from large refrigeration systems; ▪ Measurements of fouling of heat exchangers; ▪ Thermal driven liquid pumps for power engineering and refrigeration systems; ▪ Mini-channel heat transfer equipment for refrigeration and heat pump, and ORC applications. <p>We have laboratory facilities and modelling tools for investigation of the above topics.</p> | | |
| Contact person | Forename and surname | DARIUSZ J. BUTRYMOWICZ | |
| | Contact details | Politechnika Białostocka, Polska, 15-950 Białystok, Wiejska Str. 45C Tel./Fax: tel. +48 085 7469270 butrym@pb.bialystok.pl | |

ID no: **ENV 86**

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|---------------------------------------|--|--|----------|
| Title of Project | «Ecological Building».Implementation of energy effective building technologies and methods. | | |
| Name of Institution and adress | OBRIY UKRAINE; 79071 Lviv, Volodymyra Velykoho Str. 125 b | | |
| Type of institution | Other: Limited liability company | | |
| Institution profile | <ul style="list-style-type: none"> ▪ Production of ecological building materials ▪ Energy saving and building projects development and implementation ▪ Ecological energy effective building of dwelling and public units ▪ Energy supply optimization | | |
| Main subject of activity | KEY WORDS | | |
| | Ecology | Energy saving | Building |
| Project desription | Suggested technologies allow to reduce energy expenses of building materials production up to 10 times, building process up to 5-7 times, exploitation building charges up to 5-10 times in comparison with average and normative indexes in Ukraine. Consequently, it causes reduction of energy expenses and product emissions into atmosphere (CO ₂ , NO _x e.t.c). There is energy supply optimization of objects with usage of earth and sun energy, recuperation. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Research Institute Public Administration | | |
| The area of expertise | Adjusted experimental production of gipseous wall elements with thermo isolating inset. There are already realized building projects of individual and multiflat buildings according to the system. | | |
| Contact person | Forename and surname | MYKHAYLO LISHCHYNSKYI | |
| | Contact details | Ukraine, 79071 Lviv, Volodymyra Velykoho Str. 125 b Tel./Fax +38 032 2971050 obriy@utel.net.ua; www.obriy.org | |

ID no: **ENV 87**

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|---------------------------------------|--|---|-------|
| Title of Project | <i>Replacement of fossil fuels by forestry and agricultural residue in pyrometallurgy.</i> | | |
| Name of Institution and adress | Physical and Technological Institute of Metals and Alloys of National Academy of Sciences of Ukraine UKRAINE; 03680 Kyiv, Vernadsky Ave. 34/1 | | |
| Type of institution | Research Institute | | |
| Institution profile | Physico-Technological Institute of Metals and Alloys (former Institute of Foundry Problems) of NASU has been founded in 1958. Its major mission is research and development of the novel metallurgy and foundry technologies. Now the basic scientific direction of the Institute activity is the certain exploration of hydrodynamic, heat-mass exchange and crystallization processes at pretreating, handling and hardening of alloys with application of physical and chemical influences and creation of the technological fundaments of new materials and high-quality metal production. The Institute has strong relations with melting and casting shops of the Ukrainian Integrated Steel Mills that currently are successfully manufacturing steel product. The Institute also participates in international scientific cooperation. | | |
| Main subject of activity | KEY WORDS | | |
| | Metallurgy | Foundry | Metal |
| Project desription | The survey of an annual amount and energetic properties of the residues generated in Ukraine was done. About 10% coal mined in Ukraine may be replaced by them. The experience in such activities gained by Ukrainian metallurgists at the former times has been analyzed. It is connected with application of forestry thinning during ferroalloy production and husks in steelmaking. The non-traditional method of finding out a behavior of the residues during their application in metallurgy has been worked out by us. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Large Industry | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Renewable sources of energy. ▪ R &D pyrometallurgical processes. | | |
| Contact person | Forename and surname | IRYNA FEDORENKO | |
| | Contact details | Ukraine, 03680 Kyiv, Vernadsky Ave. 34/1 Tel./Fax+38 044 4246057; +38 044 4241210 vlads@visti.com | |

ID no: **ENV 88**

| | | |
|---------------------------------------|--|---|
| Title of Project | <i>Perspective mechanisms of cooperation in sphere of the sustainable development maintenance.</i> | |
| Name of Institution and adress | Lviv National Polytechnic University UKRAINE; 79013 Lviv, Bandery Str. 12 | |
| Type of institution | University | |
| Institution profile | Lviv Polytechnic National University has proved itself to be a powerful scientific and educational centre of Europe and the generator of technical ideas and inventions since the first years of its foundation. The scientific potential of Lviv Polytechnic National University consists of about 2000 persons among whom there are 190 doctors of sciences and about 1130 candidates of sciences. About 50 scientific schools are functioning at Lviv Polytechnic University among which there are some of the oldest scientific schools in Ukraine. Specialists are mainly trained at the University by 12 educational and scientific institutes, in which students from Ukraine and other countries study in 56 bachelor directions and 103 specialities, 83 out of which are of the master's level. Basic directions of international activity of Lviv Polytechnic National University involve complex cooperation with more than 50 foreign universities within the framework of the concluded. | |
| Main subject of activity | KEY WORDS | |
| | Education | Science |
| Project description | Existing position in the field of protection of an environment continues to remain critical, despite of accepted measures. For the sanction of the given problems constantly it is offered to conduct procedure of search, discussion and selection of the best ideas for their practical realization. For maintenance of a successful course of processes of cooperation on two and a multilateral level the economic mechanisms allowing along with penal sanctions to interest originators of pollution in prevention of drawing of damage is offered. These mechanisms can be realized under condition of favorable conditions creation for realization of ecological projects, in particular due to creation new innovational clusters structures on the basis of university technological parks with the certain powers. | |
| Stage of project | Initial idea Other: search initiative work | |
| Type of sought partner | University Research Institute Public Administration | |
| The area of expertise | <ul style="list-style-type: none"> ▪ a science ▪ economy ▪ protection of an inhabitancy | |
| Contact person | Forename and surname | VIACHESLAV DOVBENKO |
| | Contact details | Ukraine, 79005 Lviv, 29005, Martovych Str. 10/9 Tel./Fax +38 032 2613065 vodol@litech.lviv.ua |

ID no: **ENV 89**

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|---------------------------------------|---|--|
| Title of Project | <i>Prospecting, degasation and exploration of methane gas from coal deposits in the city Dzerzhinsk.</i> | |
| Name of Institution and adress | Executive branch of Dzerzhinsk city advice (Municipality of Dzerzhinsk city) UKRAINE; 85200 Dzerzhinsk, 50 Let Oktyabrya Str. 27 | |
| Type of institution | Other: Municipality | |
| Institution profile | Extractive industry | |
| Main subject of activity | KEY WORDS | |
| | GreenGas | ADETEF |
| | | INERIS |
| Project desription | Prospecting, degasation and exploration of methane gas from coal deposits in the city Dzerzhinsk. | |
| Stage of project | Feasibility study | |
| Type of sought partner | Int'l Organization | |
| The area of expertise | Geological ground on a count and estimation of resources of hydrocarbon gases on the mine field of mine of <<Toreckaya>>. | |
| Contact person | Forename and surname | SVITLANA MIAN |
| | Contact details | Ukraine, 85207 Dzerzhinsk, 50 Let Oktyabrya Str. 27 Tel./Fax +38 095 8473277; +38-062 4741033 mia-svetlana@yandex.ru |

ID no: **ENV 90**

| | | | |
|---------------------------------------|--|---|--------|
| Title of Project | <i>Investigation of dynamics of Cs-137 uptake by plant at natural conditions.</i> | | |
| Name of Institution and adress | Kyiv Taras Shevchenko National University Ukraine; MSP 01601 Kyiv, Volodimirska Str. 64 | | |
| Type of institution | University | | |
| Institution profile | Radioecology. 1) Prorok V.V., Mason C.F.V., Timofeyev S.F., Ageyev V.A., Makarenko T.I., Melnichenko L.Yu. Dependence of ¹³⁷ Cs at the plant on the soil parameters.// Bulletin of Kyiv University. Series: Physics & Mathematics. 2004. No 3. -p.407 - 416. 2) Prorok V.V., Mason C.F.V., Ageyev V.A., Ostashko V.V., Melnichenko L.Yu. The Transfer of dissolved ¹³⁷ Cs from soil to plants. Proceeding of WM'06. Session 66. Tucson (Arizona), 26 February – 2 March 2006. 3) Bulavin L.A., Prorok V.V., Melnichenko L.Yu., Lipska A.I. Transition of cesium and strontium from the soil to the plant at natural conditions. Reports of the National academy of Sciences of Ukraine, 2008, No.10, p. 186 – 190, WM06/66.html. | | |
| Main subject of activity | KEY WORDS | | |
| | Cs-137 | Soil Solution | Plants |
| Project desription | According to our data, concentration of Cs-137 in the plant is approximately proportional to product of concentration of Cs-137 in the corresponding soil solution and the soil humidity. To confirm our model more exactly and with more data, we will sow different plants at several experimental sites with different types of soil at Chernobyl Exclusion Zone. We will use our method of mixed sowing. We will measure concentration of Cs-137 in the plants and in the soil solution and chemical content of plants and the soil solution. According to our data, concentration of Cs-137 in soil solution change permanent during season of vegetation. To install reasons of the changes, we will measure concentration of Cs-137 in soil solution, soil solution chemical content, soil temperature and humidity for several times every seasons. To compare with experiment at natural conditions, we will carry pot experiment with the same soils, but with others temperature and humidity. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | Vasil Prorok was a manager of STCU project 2390 (2001-2004). We worked at Chernobyl Excluzion Zone. We investigated Cs-137 and Sr-90 uptake by plants. We used our method of mixed sowing. We worked at several experimental sites. We selected plants and soils several times every seasons. We extracted soil solution from the every soil sample after selection. We measured concentration of Cs-137 and Sr-90 in the plants and in the soil solution, chemical content of plants and soil solution and soil humidity. We installed that concentration of Cs-137 in the plant is approximately proportional to product of concentration of Cs-137 in the corresponding soil solution and the soil humidity. We installed that Cs-137 transfer to the plants via Low-affinity channels all the way. Potassium transfer to the plant via Low-affinity channels at concentration of the dissolved potassium in the soil (product of potassium concentration in the soil solution and humidity content at a unit of volume of the soil) > 0,002-0,004 mg/sm ³ and via High-affinity channels at the concentration < 0,002-0,004 mg/sm ³ . We confirmed that ratio Sr/Ca at the plant equal to the ratio at the equilibrium soil solution. | | |
| Contact person | Forename and surname | VASIL PROROK | |
| | Contact details | Ukraine, MSP 01601 Kyiv, Volodimirska Str. 64 Tel./Fax +38 044 5262295 prorok@univ.kiev.ua | |

ID no: **ENV 91**

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|---------------------------------------|---|---|--------------------------------|
| Title of Project | <i>Virtual Organization for Energy Problems Solving in European GRID.</i> | | |
| Name of Institution and adress | G.E.Pukhov Intitute for modeling in energy engineering, NASc of Ukraine UKRAINE; 03164 Kiev, General Naumov Str. 15 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>Scientific activity of Institute for Modeling in Energy Engineering NAS of Ukraine is concentrated on fundamental researches in area of applied-physics problems of power engineering. The Institute conducts researches on the following scientific directions:</p> <ul style="list-style-type: none"> ▪ theory and methods of mathematical and physical modeling and simulation of electro physical and electrical power devices and systems; ▪ metrological providing, methods and tools of resource diagnostics and reliability of electrical equipment; ▪ scientific bases of development of power and energy consumption on a long-range outlook; ▪ high-performance computing and special purpose device design; ▪ ecological problems; ▪ theory of controlled processes, development and creation of all kinds automatic control system; ▪ principles and methods of algorithms development for new types of computer architectures including multiprocessor and conveyer ones. <p>The Institute supports scientific and technical relations with a lot of national and business companies and organizations in Ukraine and abroad. Works of our scientists are rewarded by the national awards of Ukraine, by G.A. Proskura and S.A. Lebedev awards of NAS of Ukraine. We are focused a special attention on the scientific personnel training. Today 15 doctors of sciences and 31 candidates of sciences are in the Institute. The post-graduate school functions and persons work for doctor's degree. The Institute is the founder of "Electronic modeling" journal getting specialists from many countries to take part in this work.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Computer science | Modeling and simulation | Energy engineering and ecology |
| Project desription | <p>During for the last years the foundation resource-technical bases of Ukrainian Academic abstract GRID is built, on the base of which what Ukrainian national GRID-initiative is created. Activity of Ukrainian GRID is directed on the decision of wide spectrum tasks. But priority of tasks for the decision of energy engineering problems power is increased. Such problems are:</p> <ul style="list-style-type: none"> ▪ modeling of problems of power: electro-power network objects and their modes, pipeline systems, the problems connected with power consumption, etc.; ▪ development of expert systems and decision-making systems; ▪ ecological analysis, monitoring and modeling of environment and industrial influence on it; ▪ modeling of economical problems for the analysis and forecasting of regional economic development. <p>G.E. Pukhov Institute institution for modeling in energy power engineering suggests to create a virtual organization for the solving of energy power problems within the scope of European GRID. The basic main tasks of this organization are appear joining of resources to increase the performance capacity of the GRID-system , development making of the special purpose software, conducting of organizational and publicity actions.</p> | | |
| Stage of project | Definition phase | | |
| Type of sought partner | University Research Institute Int'l Organization Large Industry | | |
| The area of expertise | | | |
| Contact person | Forename and surname | OLEKSANDR CHERMERS | |
| | Contact details | Ukraine, 03164 Kiev, General Naumov Str. 15 Tel./Fax +38 044 4241442 a.a.chemeris@gmail.com | |

ID no: ENV 92

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|--|---|---|----------------------------|
| Title of Project | <i>Modeling of diffusion processes of vehicular air pollutions.</i> | | |
| Name of Institution and address | Ternopil National Economic University, Faculty of Computer Information Technologies UKRAINE; 46000 Ternopil, Yunosti Str. 9 | | |
| Type of institution | University | | |
| Institution profile | <p>Ternopil National Economic University is the authoritative educational center among economic higher educational institutions in Ukraine. The main branches of activity in University are state financial system and law, insurance and taxation, accounting, control, audit, management, computer science, computer engineering and sociology. One of the major tasks of TNEU is integration into the European education and scientific area in accordance with principles of the Bologna process. University is recognized by the powerful center of science in branch of economy and computer technologies. Prominent aspect of the world recognition is membership of our University with European international association (Amsterdam, the Netherlands).</p> <p>An educational and scientific activity of Faculty of Computer Information Technologies covers different directions in computer technologies such as computer science, computer engineering and economic cybernetics. Scientists of faculty are organizers of IEEE conference IDAACS - Intelligent Data Acquisition and Advanced Computer Systems (www.idaacs.net) and scientific journal Computing (www.tanet.edu.te.ua/computing).</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Mathematical modeling | Interval analysis | Dynamic and static systems |
| Project description | <p>PURPOSE: Creation of the imitation system for prediction of negative influence of vehicular pollution on the environment and population of cities.</p> <p>The all existing similar systems, as a main part, include the complex of mathematical models which describes diffusion processes. However for the estimation of vehicular pollution of concrete district it is necessary to account of such factors, as: degree of ventilation, weather, duration of action of harmful pollutions, and especially biosphere processes of distribution of contaminations and many other. Therefore all models require the solving of tasks of structural and parameter identification of difference operator on the basis of experimental data. For the receiving of reliable and high predicted properties of such models it is necessary to use a lot of experimental data which are highly cost. Besides, mainly spectroanalyzers are characterized considerable measuring errors (to 50%). On such conditions it is expedient to use the methods of interval data analysis. These methods however not require so lot of experimental data and allow considering of all errors in it. Besides the calculable procedures of models improvement on the basis of interval data, enough simply take into account additional data, got as numerical intervals.</p> | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute | | |
| The area of expertise | Our Department of Computer Science concentrates the main researches related to mathematical modeling. Scientists are experienced in development of methods, algorithms and software for models creation in conditions of uncertainty when data presented in interval kind. In particular that is a design of optimal experiments, structure and parametrical identification for technical, ecological and economical systems. Department is coordinator and participant in several national and joint international projects in the higher noted areas. Also it has agreement on cooperation with Sanitary-Epidemiological Station of Ternopil city for software creation on mathematical modeling of air pollutions. | | |
| Contact person | Forename and surname | MYKOLA DYVAK | |
| | Contact details | Ternopil National Economic University 8 Campus Ukraine, 46000 Ternopil, Yunosti Str. 9 Tel./Fax +38 035 2435832; +38 035 2436354 mdy@tneu.edu.ua ; www.tanet.edu.te.ua | |

ID no: TCo 101

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|---------------------------------------|---|---|------|
| Title of Project | <i>MNT-ERA.NET Transnational R&D Cooperation Opportunities.</i> | | |
| Name of Institution and adress | Institute of electron Technology POLAND; 02-668 Warszawa, Al. Lotników 32/46 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>The Institute of Electron Technology (ITE) is a major Polish research centre with the primary focus on semiconductor micro- and nanotechnology. The fundamental goal of ITE is to conduct basic and applied research in the area of microelectronics, semiconductor optoelectronics and micromechanics as well as characterzation of semiconductor materials and structures. The basic statutory activity of the Institute is financed by the Ministry of Science and Higher Education. Additional funding of research is provided on competitive basis in the form of grants for research teams and individual researchers. Also, ITE research teams actively participate in European consortia which execute projects supported by the EU Research Framework Programmes as well as in big national projects financed from Structural Funds.</p> <p>The applied research led by ITE is focused on meeting the demand of the industry for new, advanced and innovative technologies and products in the field of Information Society Technologies. ITE develops and sells market products such as devices, services and intellectual property rights to domestic and foreign customers.</p> <p>ITE is also involved in educational and training activities for Polish and foreign Ph.D. students and engineers. The Institute is entitled to award Ph.D. and D.Sc. degrees, both in the field of semiconductor electronics.</p> <p>Recently, ITE established two Centres of Excellence: CEPHONA (Physics and Technology of Photonic Nanostructures) and MANTARC (Micro- and Nanotechnology Applied Research Centre). Both were accepted by the Minister of Science. Innstitute complies with the PN-EN ISO 9001:2001 standard in the area of:</p> <ul style="list-style-type: none"> ▪ conducting scientific studies and development work in electronics and solid-state physics, ▪ construction design, development of micro- and nanotechnologies and production of semiconductor devices such as specialised integrated circuits, lasers, photodetectors, nuclear detectors and sensors, ▪ research and development of measurements methods for materials, structures and semiconductor devices. | | |
| Main subject of activity | KEY WORDS | | |
| | Semiconductor electronics | Semiconductor physics | MEMS |
| Project desription | <p>MNT initiative has announced new call for proposals. Deadline for submission of proposals is May 6th 2009. 24 funding organizations from 21 countries participate in this joint effort. MNT-ERA.NET encourages the submission of commercialisable R&D proposals addressing all fields of micro and nano technologies including production technologies. Project consortia consisting of at least two parties from two different participating countries/regions will be invited.</p> <p>In this Transnational Call 2009, particular emphasis is put on the following applications:</p> <ul style="list-style-type: none"> ▪ energy efficiency ▪ processing of materials ▪ photonics and electronics ▪ medical devices | | |
| Stage of project | Development has been started | | |
| Type of sought partner | Large Industry SME | | |
| The area of expertise | Research and industrial organizations which are able to create consortia consisting of at least two parties from two different participating countries/regions can apply for funding. The consortia may involve as many partners as necessary. Partners from countries (regions) not being the members of MNT ERA-Net can participate with their own funding. | | |
| Contact person | Forename and surname | PIOTR DUMANIA | |
| | Contact details | Poland, 02-495 Warszawa, Al. Lotników 32/46 Tel./Fax +48 022 5487880; +48 022 5487882 pdumania@ite.waw.pl | |

ID no: TCo 102

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|---------------------------------------|--|--|
| Title of Project | <i>Preliminary title of my Ph.D. dissertation: The development of innovative academic entrepreneurship as a source in growth of economy innovation on the example of Moscow State University.</i> | |
| Name of Institution and adress | Warsaw University of Life Sciences POLAND; 02-787 Warszawa, Nowoursynowska Str. 166 | |
| Type of institution | University | |
| Institution profile | I am Ph.D Student of Economics Faculty, my institution is Warsaw University of Life Sciences. | |
| Main subject of activity | KEY WORDS | |
| | Small innovative business | Spin-off companies |
| Project desription | I conducted some research between micro and small innovative enterprises spin off type which exist in Moscow State University and Science Park located there which use new ideas invented in various faculties. I would like to still expand my research and collected material use as a background to publish some articles and finally to write dissertation on PhD study. | |
| Stage of project | | |
| Type of sought partner | University | |
| The area of expertise | I am interested in possibilities of the commercialization of new ideas and chances of supporting for small innovative companies spin-off type. | |
| Contact person | Forename and surname | MICHAŁ BOROWY |
| | Contact details | Mobile +48 508062775 wars1@o2.pl |

ID no: **TCO 103**

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|---------------------------------------|--|--|
| Title of Project | <i>A new method of globoidal transmission's manufacturing.</i> | |
| Name of Institution and adress | Lviv Polytechnic National University UKRAINE; 79013 Lviv, Bandera Str. 12 | |
| Type of institution | University | |
| Institution profile | Education and Scientific researches | |
| Main subject of activity | KEY WORDS | |
| Project desription | The object of the presentation is a new highly efficient and resource-saving method and technology of globoidal gears manufacturing. Globoidal gears are a central elements of elevator driving reductors. They are indispensable in reductors in elevators and elevator-transport machines due to their self-braking property at large load capacity. Its manufacturing requires special expensive equipment and a special cutting instrument, so this is the reason why a manufacturing and renovating of driving gears by traditional methods are ineffective and money- consuming. The new method could solve this problem since it is designed to use conventional equipment and inexpensive cutting instruments. | |
| Stage of project | Development has been started | |
| Type of sought partner | Industry | |
| The area of expertise | Methods and technology of a gear's cutting and gear transmission's manufacturing. | |
| Contact person | Forename and surname | IHOR HRYTSAY |
| | Contact details | Ukraine, 79013 Lviv, Bruchovycka Str. 14 Tel./Fax +38 032 2335349 i.gryc@org.lviv.net |

ID no: TCo 104

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|---------------------------------------|--|--|---------------------|
| Title of Project | <i>Sociological providing of Innovative Technologies Projects.</i> | | |
| Name of Institution and adress | The Institute of Sociology of the National Academy of Sciences of the Republic of Belarus BELARUS; 220072 Minsk, Surganova Str. ½ | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>Our organisation is a leading national sociological structure in contemporary Belarus. Our main activities:</p> <ul style="list-style-type: none"> ▪ conducting sociological research (national samples) ▪ studying of theoretical problem of sociology ▪ working out sociological methodology ▪ public opinion polls ▪ surveys of the market, mass-media and Health Care system ▪ working out of recommendations for the Belarusian social policy | | |
| Main subject of activity | KEY WORDS | | |
| | Sustainable development | Inter-disciplined cooperation | Sociological method |
| Project description | <p>Sociology studies Innovative Technology as a social phenomenon. It means that sociologists see IT from the following points of view:</p> <ul style="list-style-type: none"> ▪ from the side of searching for acceptable solutions of important social problems <p>through the lenses of consequences IT causes in society in whole and in social groups as well.</p> <p>Sociology studies social, cultural and organizational factors of the IT appearance and spreading, and particularly motivation, stereotypes, value system, behavioural standards and traditions that can both play as IT stimulus and anti-stimulus.</p> <p>Social consequences of IT can be both positive and negative, and they can create global threats for the sustainable development of the society.</p> <p>For example, because of the Internet the social communication changed radically: rate of social interactions and density of social contacts increased, access to the information and knowledge extended. The Internet created a global social communicative system. But also global risks and problems arise, and nowadays there are not effective solutions for elimination most of them. The global system of Internet doesn't create a proper system of social control and management. Preventive steps directed to working out adequate strategies of management of the Internet space are yet local and fragmental.</p> <p>We propose the sociological providing of inter-disciplined Projects of 7FP in following directions: ICT, ENVIRONMENT, TRANSREGIONAL COOPERATION, HEALTH.</p> | | |
| Stage of project | Initial idea | | |
| Type of sought partner | University Research Institute Consultancy Public Administration | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Social Policy. ▪ Social foundation and social efficacy (efficiency) of Innovative Technologies ▪ The research institute (laboratory) is interested in interdisciplinary cooperation joining efforts of innovative technologies creators, economists, sociologists, ecologists, political scientists in order to provide an integral systematic knowledge about environment to develop all kinds of resources (human, ecological and economical) in a sustainable way. | | |
| Contact person | Forename and surname | VIYALETA SHUKHATOVICH | |
| | Contact details | Belarus, 220082 Minsk, Matusevich Str. 19-19 Tel./Fax +37 517 2842774; +37 529 2842928 Mobile +37 529 5730885 violetta_sh@mail.ru | |

ID no: TCo 105

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|--|---|--|-----------------------------------|
| Title of Project | <i>Support actions for international R&D cooperation on bi-lateral and multilateral level in Environment, Energy, ICT, Nanotechnologies.</i> | | |
| Name of Institution and address | Belarusian Institute of System Analysis and Information Support of Scientific and Technical Sphere BELARUS; 220004 Minsk, Pobediteley Ave. 7 | | |
| Type of institution | Research Institute | | |
| Institution profile | <p>BellSA is acting under the State Committee for Science and Technology of the Republic of Belarus (ranked as a Ministry for S&T). The mission of BellSA is the support of System Analysis and S & T Sphere and the provision with S & T information, which are necessary to the SCS&T and scientific community of the country for the development and implementation of the state S&T and innovation policy.</p> <p>In order to achieve the goal of its mission, BellSA creates data-bases on scientific potential (organizations and experts), S&T developments and new technologies resulting from all types of R&D projects (state, regional, international) both finished (for the period from 1996) and those being in progress including FP projects.</p> <p>At the same time BellSA is one of the main organizers of international S&T cooperation in the country: it organizes over 20 international events (seminars, conferences, exhibitions, Days of S&T) both in Belarus and abroad annually.</p> <p>In 2004-2006 BellSA hosted Belarus National Information Point for the EU FP6, since 2007 – Belarus National Information Point for the FP7. According to the decision of the SCS&T BellSA coordinates activities of the national FP7 NCPs' network and also acts as a national contact point for ICT, Mobility and INCO.</p> <p>Informational resources available in the Institute and experience in organization of S&T cooperation together with the assistance on the state level (via the SCS&T) make BellSA a suitable partner well positioned organizationally and equipped with relevant resources to reach the project goals. The BellSA staff working for the FP7 National Information Point in Belarus will be directly involved in the project activity. At the moment it has been already involved as a partner into 8 SSA/CSAs in FP6/FP7: IncoNet EECA (INCO), INT-ER-LINK (Environment), SCUBE-ICT (ICT), EXTEND (ICT), Idealist2011 (ICT). Completed projects: INJOY&TRAIN (Food Quality and Safety), Idealist7fp (ICT), ERANIS (INCO), NIS-NEST (NEST).</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Informational and analytical support of the state S&T and innovation policy | Organization of international cooperation in science and technology | EU FP7 National Information Point |
| Project description | This type of projects could combine several types of activities: analysis and monitoring of the state-of-the art and tendencies of development in the exact area with the focus on the partnering needs, organizations of joint events (conferences, seminars, trainings, etc) including regional ones, partner search, etc. | | |
| Stage of project | Initial idea | | |
| Type of sought partner | University Research Institute Consultancy Public Administration | | |
| The area of expertise | Knowledge and contacts in specific S&T area + administrative skills. | | |
| Contact person | Forename and surname | OLGA MEEROVSKAYA | |
| | Contact details | Belarus, 220004 Minsk, Pobediteley Ave. 7 Tel./Fax +37 517 2867630, +37 529 6612576 meerovskaya@fp7-nip.org.by; meerovskaya@mail.ru; http://fp7-nip.org.by; www.belisa.org.by | |

ID no: TCo 106

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|--|---|---|-----|
| Title of Project | <i>Medical Cluster of Eastern Poland – animator of innovation and cooperation with countries of Eastern Europe in biomedical engineering.</i> | | |
| Name of Institution and address | Innovative Eastern Poland Association POLAND; 15-111 Białystok, Tysiąclecia Państwa Polskiego Str. 4 | | |
| Type of institution | Other: medical cluster | | |
| Institution profile | <p>Innovative Eastern Poland Association was created in March 2007 to continue implement work of International Innovation Centre of East. The Mission of International Innovation Centre of East is to work for the development of a knowledge-based economy by way of international cooperation, particularly for the development of Eastern Poland. Since October 2008 Association embrace function of a Leader of Medical Cluster of Eastern Poland.</p> <p>Medical Cluster of Eastern Poland functions in sector of biomedical engineering, health care and biotechnology. The Cluster consists of the best universities like Warsaw University of Technology, Białystok Technical University, Medical University of Białystok and the most innovative companies of Podlaskie voivodeship.</p> <p>Purpose of the Cluster is to create modern environment of medical technologies. We will implement it within our own Science – Technology Park named BEST Park (Biomedical Engineering Science & Technology Park).</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Biomedical Engineering | ICT | NMP |
| Project description | <p>In cooperation with Partners from Eastern Europe we are planning to create Virtual Medical Cluster. Communication between Partners will be possible through Internet platform.</p> <p>International character of the Cluster allow to participate Cluster Partners in major European projects and also will facilitate entrance with our products to markets of whole Europe.</p> <p>The Cluster will continue organizing International Forum “Innovative Technologies for Medicine – ITMED” which facilitates contacts and exchange of experience between environment of science and business.</p> | | |
| Stage of project | Initial idea | | |
| Type of sought partner | University Research Institute Int'l Organization SME | | |
| The area of expertise | <p>Our Partners we can offer:</p> <ul style="list-style-type: none"> ▪ assistance in creating and leading similar Cluster; ▪ assistance in application for financial support from European Union Programmes and in project management; ▪ cooperation with Polish enterprises; ▪ assistance in implementing in products on Polish market. | | |
| Contact person | Forename and surname | WACŁAW JULIAN BIAŁKOWSKI | |
| | Contact details | Poland, 15-111 Białystok, Tysiąclecia Państwa Polskiego Str. 4 Tel./Fax +48 85 6750095 wjb@ipw.org.pl | |

ID no: TCo 107

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|---------------------------------------|---|---|--|
| Title of Project | <i>Creation of the virtual innovative student's centre.</i> | | |
| Name of Institution and adress | Odesa Regional Institute of Public Administration, National Academy of Public Administration Office of the President of Ukraine UKRAINE; 65009 Odesa, Genuezska Str. 22 | | |
| Type of institution | University | | |
| Institution profile | Professional training for the public service is an important condition for the stability of the state and structure of a socially oriented free-market economy. The National Academy of Public Administration, Office of the President of Ukraine, and its Regional Institutes play a central role in scientific research and training as well as educating public servants and officials. Due to the education of public servants in management, public administration and project management, the Odessa Regional Institute aims to contribute to the renewal of the personnel structures in public administrations of regional levels. | | |
| Main subject of activity | KEY WORDS | | |
| | Institutional reforms | Modification of education programs | Elaboration of ISO to Information technology |
| Project desription | Creation of bank of student's projects in the form of the virtual innovative centre for joint realisation by several partners from Poland and Ukraine with support of local authorities and business, including financial. | | |
| Stage of project | Initial idea | | |
| Type of sought partner | Public Administration | | |
| The area of expertise | Support of education, realisation of educational projects | | |
| Contact person | Forename and surname | VALERIY LOGVINOV or TETIANA CHORNA | |
| | Contact details | ORIDU Department of information technologies Ukraine, 65009 Odesa, Genuezska Str . 22 Tel./Fax 38 048 2639249 vlog@te.net.ua; www.oridu.odessa.ua | |

ID no: TCo 108

| | | | |
|---------------------------------------|--|--|------------|
| Title of Project | <i>Transborder cooperation in the context of integration of Ukraine in European social space.</i> | | |
| Name of Institution and adress | Lviv National University named Ivan Franko UKRAINE; 79008 Lviv, Prospect Svobody Str. 18 | | |
| Type of institution | University | | |
| Institution profile | Experience of organization of sociological researches from the problems of transborder cooperation in the conditions of Eurointegration. Forming of European social space. Creation and functioning of the European regions. Key customers: institutes of sociology, marketing-sociological centers, representatives of administrations and public organizations. | | |
| Main subject of activity | KEY WORDS | | |
| | Sociology | Transborder Cooperation | Euroregion |
| Project description | Research of role of the European regions, specifics transborder and euroregional cooperation in the context of functioning of social space in Europe. The problems of development of the Euroregions as a basic component in the process of state support of development of transborder cooperation. Participating in the general international projects of sociological researches. | | |
| Stage of project | Feasibility study | | |
| Type of sought partner | University | | |
| The area of expertise | Coordination and cooperation from organization of sociological researches from the problems of transborder cooperation in the conditions of Eurointegration with the leading sociological and marketings centers of Poland and Europe. | | |
| Contact person | Forename and surname | HALINA SHCHERBA | |
| | Contact details | Ukraine, 79008 Lviv, Prospect Svobody Str. 18 Tel./Fax +38 032 2645808; +38 032 2743068 gshcherba@ukr.net | |

ID no: TCo 109

| | | |
|---------------------------------------|--|--|
| Title of Project | <i>The organisation of work of technological brokers for a transfer of technology and contact to the European refej-centres.</i> | |
| Name of Institution and adress | State Centre of Scientific and Engineering Information UKRAINE; 43020 Lutsk, Rivnenska Str. 48 | |
| Type of institution | Consultancy | |
| Institution profile | Problems by respience of rights to brands, by buying or selling licenses, by contracts of franchising in circumstances Transregional Co-operation. | |
| Main subject of activity | KEY WORDS | |
| Project desription | Patentno-legal support of innovative projects for workings out mainly in HIGH SCHOOLS, intermediary in the organisation of communications of a science with manufacture on the basis of databases having in our centre: «Manufacturers of the goods and services», «science Achievements». | |
| Stage of project | Initial idea | |
| Type of sought partner | University Consultancy Large Industry | |
| The area of expertise | Quality of information and patent support of scientific workings out. | |
| Contact person | Forename and surname | EMMA KUZHELL |
| | Contact details | UKRAINE; 43020 Lutsk, Rivnenska Str. 48 Tel./Fax + 38 033 2285398 volpatent@gmail.com |

ID no: TCo 110

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|--|---|---|-----------------|
| Title of Project | <i>The preparation of international projects on maintenance of the cooperation between Poland and Ukrainian organizations in the sphere of science and innovations.</i> | | |
| Name of Institution and address | Lviv Centre for Scientific, Technical and Economic Information UKRAINE; 79058 Lviv, V. Tchernovil Ave. 57 | | |
| Type of institution | Other: Government enterprise | | |
| Institution profile | <p>We are doing our best in running the www information service, organizing infodays, workshops and conferences. The LvCSTEI carries out the information-analytical inquiries, consultations and aid in business plans development, runs the publicity-information campaign in Internet, web-page creation, use of Internet services for business and education; distance consulting; computer technologies for automatization of clients' production activity.</p> <p>The LvCSTEI's monitoring of scientific-technological potential of Ukraine is continuously carried out; suggestions related with the introduction of scientific and technical developments in the region are made, partner conferences with leading scientists, public agents, and businesses are conducted.</p> <p>LvCSTEI has an essential experience in cooperation with foreign partners, especially in Framework Programme.</p> <p>In 2007 the LvCSTEI created „Centre energy saving technologies” that started the formation of of innovative infrastructure in the sphere of energy saving and new technologies in building on the base of partner favorable cooperation with leading scientific technical groups and leading enterprises.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Innovation | International Cooperation | Online Database |
| Project description | Poland-Ukrainian cooperation in the sphere of science and innovations is developing actively. Our Centre is an active participant of these processes. At present we are searching a partner from Poland that would be interested in preparation of a common project and searching for funding for project realization. The point of the project lies in key actors estimation in Ukraine and in Poland, working out the description schemes of scientific and innovative potential of Poland and Ukrainian organizations, determination of cooperation priorities that are interesting for both sides, identification of possible funding sources for common activities, attraction of state and business structures to cooperation. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Consultancy Public Administration | | |
| The area of expertise | <ul style="list-style-type: none"> ▪ Formation of online database ▪ Workshops leading ▪ Consultations in the sphere of intellectual property ▪ Organization of common conferences and forums | | |
| Contact person | Forename and surname | IVAN KULCHYTSKYI | |
| | Contact details | Ukraine, 79020 Lviv, Petra Pancha Str. 11/3 Tel./Fax +38 032 2523200; +38 032 2523342 ivanppp@cstei.lviv.ua; kul.ivan@gmail.com; www.cstei.lviv.ua | |

ID no: **TCO 111**

| | | | |
|---------------------------------------|--|--|---------|
| Title of Project | <i>Logistic Management of Transregional Co-operation.</i> | | |
| Name of Institution and adress | National University "Lvivska Politechnika" UKRAINE; 79013 Lviv, Bandery Str. 12 | | |
| Type of institution | University | | |
| Institution profile | Preparation specialists for technic, economic and IT-spheres. | | |
| Main subject of activity | KEY WORDS | | |
| | Height education | R&D | Technic |
| Project desription | Logistic infrastructure development for supporting transregional co-operation (tourism, transport, Euro-2012). | | |
| Stage of project | Feasibility study. | | |
| Type of sought partner | University | | |
| The area of expertise | | | |
| Contact person | Forename and surname | KRYKAWSKYY YEWHEN | |
| | Contact details | Ukraine, 79008 Lviv, Kniaza Str. 4/6 Tel./Fax +38 032 2582510 ywkryk@polynet.lviv.ua | |

ID no: TCo 112

| | | | |
|---------------------------------------|--|--|------------------|
| Title of Project | <i>International Virtual Business Innovation Incubator.</i> | | |
| Name of Institution and adress | Innovative Eastern Poland Association POLAND; 15-111 Białystok, Tysiąclecia Państwa Polskiego Str. 4 | | |
| Type of institution | Consultancy | | |
| Institution profile | <p>Innovative Eastern Poland Association was created in March 2007 to continue implement work of International Innovation Centre of East. The Mission of International Innovation Centre of East is to work for the development of a knowledge-based economy by way of international cooperation, particularly for the development of Eastern Poland.</p> <p>IICoE functions as a centre for the transfer of technology first and foremost to cater for the needs of the Podlasie economy and science. However, it is also active at an international level for the sake of its both nationwide and foreign partners. The activities of IICoE include working on shared projects with the use of advanced technologies and focusing on the cooperation with the foreign partners of the North-Eastern Europe macro-region.</p> | | |
| Main subject of activity | KEY WORDS | | |
| | Technology Transfer | Innovation | Entrepreneurship |
| Project description | <p>Eastern countries – EU and non EU members require tools for speeding up innovativeness and competitiveness of their economy. In many cases communication and capability building are the barriers which predominate. Business Innovation Centres in Poland and Germany have been successfully developed in last 30 years. Non EU countries may be able to access them with information and communication technologies to establish virtual international network through international virtual business innovation incubator which enables cooperation of companies and R&D institutes in different countries – new and old EU members as well as neighbourhood eastern countries. Members will benefit from existing networks, generate and distribute knowledge subcontracting, mutual projects, etc.</p> | | |
| Stage of project | Initial idea | | |
| Type of sought partner | University Research Institute Int'l Organization Consultancy Public Administration | | |
| The area of expertise | Technology and innovation transfer, entrepreneurship, networking | | |
| Contact person | Forename and surname | KRZYSZTOF ZASIADŁY | |
| | Contact details | Poland, Al. Tysiąclecia Państwa Polskiego 4 15-111 Białystok Tel./Fax +48 85 675 00 95 zasiadly@hotmail.com | |

ID no: TCo 113

| | | | |
|---------------------------------------|---|--|---------|
| Title of Project | <i>Investment opportunities in Ukraine.</i> | | |
| Name of Institution and adress | Agency «New Delo» UKRAINE; 65121 Odessa, Preobrajenska Str. 34 | | |
| Type of institution | SME | | |
| Institution profile | In Ukraine, one marketplace currently exists for the mergers and acquisitions of privately owned small to mid-sized companies – www.newdelo.com. Multiple Listing Service (MLS) of small and mid-sized businesses for sale is maintained by Agency „New Delo”. Agency „New Delo” has offered products and services to the private equity community that help businesses get started and grow. Our mission is to bring entrepreneurs together with investors and advisors to facilitate communication, interactivity and transactions, and thereby increase the depth and liquidity of the private equity markets. | | |
| Main subject of activity | KEY WORDS | | |
| | M&A | Business | Brokers |
| Project desription | | | |
| Stage of project | 1 generic description 2 investment project #1: mid-sized businesses investment project #2: small businesses 3 conclusion | | |
| Type of sought partner | SME | | |
| The area of expertise | | | |
| Contact person | Forename and surname | DMYTRO TYCHYNSKY | |
| | Contact details | Ukraine, 65080 Odessa, Lustdorfska Str. 88/3 Tel./Fax +38 048 7283535 www.newdelo.com; tdv-1@mail.ru | |

ID no: TCo 114

| | | | |
|--|--|---|--------------|
| Title of Project | <i>Municipal Development's Modeling System "City For Future".</i> | | |
| Name of Institution and address | Research-and-Production Company "GRIS" LTD (RPC "GRIS" LTD) UKRAINE; 03680 Kyiv, Sosninykh Sim'yi Str. 3 | | |
| Type of institution | SME | | |
| Institution profile | <ol style="list-style-type: none"> 1. creation of logical models, data structures and complex algorithms of information technology processes; 2. development of information systems and corporate applications based on different industrial relational database management systems; 3. creation of the safe differential access to data; 4. development of interfaces for projects that allow integration of data from various information systems; 5. creation and maintenance of a centralized integrated geographic database that supports multi-access; 6. establishment and maintenance of thematic layers of electronic maps; 7. development of electronic tools for operations on the map; 8. development of software to perform spatial analysis, modelling and forecasting processes, studying the dynamics of changes in their condition; 9. implementation of the transfer of data through Web-protocols. | | |
| Main subject of activity | KEY WORDS | | |
| | IT | Ecology | Municipality |
| Project description | <p>We and our partners from the Ukrainian municipalities assist to development of the municipal system towards the step-by-step joining of all the local, state and municipal subdivisions to the geoinformation system with the aim of efficiency and rise of level of decision making on the municipal activity management and providing access to full, timely and truthful information to the population with the Web-technologies.</p> <p>Geoinformation technologies are to create the integrated environment for data received from different subdivisions in this system. Creation of such system ("Geoinformation system of the monitoring and analysis of the information of providing people with the rights and needs by the local government bodies" with the partnership of Slavutich town council of the Kyiv region) is carried out in the framework of the Fund of the local government assistance under the President of Ukraine projects competition we have won.</p> <p>New guidelines, that is creation of the information system of the Electronic government are discovered by us during the fulfillment of tasks of the Eastern Europe competition project "The government and society: innovations for development": "Creation of the informational centre on the permissive documents for entrepreneurs and inhabitants of Slavutich city support registration".</p> | | |
| Stage of project | Initial idea | | |
| Type of sought partner | University Research Institute Int'l Organization Consultancy Public Administration | | |
| The area of expertise | Executive Committee of Slavutich Local Self-Government, Slavutich, Ukraine Konstantiovka Local Self-Government (Donetsk oblast) Slavutich Local Self-Government (Kyiv oblast) Borispol Local Self-Government (Kyiv oblast) Obukhiv Local Self-Government (Kyiv oblast) Dserjinsk Local Self-Government (Donetsk oblast) Artyomovsk Local Self-Government (Donetsk oblast) | | |
| Contact person | Forename and surname | OLENA IVANOVA | |
| | Contact details | Ukraine, 03680 Kyiv, Sosninykh Sim'yi Str. 3 Tel./Fax +38 044 5014074; +38 044 5014061 iva@gris.com.ua; www.gris.com.ua | |

ID no: TCo 115

| | | | |
|--|--|---|---|
| Title of Project | <i>Innovative approach to corporate social responsibility as a factor of increased competitiveness of enterprises.</i> | | |
| Name of Institution and address | Zaporizhzhya National Technical University UKRAINE; 69063 Zaporizhzhya, Zhukovsky Str. 64 | | |
| Type of institution | University | | |
| Institution profile | Zaporizhzhya National Technical University (ZNTU) is a higher educational institution of the fourth accreditation level that comprises 6 institutes, 14 faculties, 59 departments etc. ZNTU has established good relations with industrial enterprises in Ukraine. ZNTU department of Labor Resources Management concentrates its research efforts on investigating the labor market, demography, corporate social responsibility, employment of the population, local self-government. | | |
| Main subject of activity | KEY WORDS | | |
| | Social commitments to a region | Sustainable development | Criteria of corporate social responsibility |
| Project description | It is planned that the project should investigate basic values which induce enterprises to be socially responsible. The balance between legislative and ethical, evident and underline, regional and European and other factors will be shown. It is also planned to study regional features of corporate social responsibility of enterprises from different industrial sectors for an ecologically dangerous region. In particular, social aspects of corporate social responsibility will be structurally identified, economic aspects of corporate social responsibility will be grounded and ecological factors of social responsibility will be singled out. Key attention is to be given to the search for the balance between economic benefit and responsibility to a local territorial community. Corporate social responsibility activities aimed at increasing enterprise competitiveness will be analyzed. The influence of local administration on the level of enterprise corporate social responsibility will be estimated. | | |
| Stage of project | Development has been started | | |
| Type of sought partner | University Research Institute Consultancy Large Industry | | |
| The area of expertise | We would like to participate as partners in a project implementation under SSH-2009 -1.1.1, and are interested in cooperation with an international consortium in order to address the range of issues related to the influence of corporate social responsibility of enterprises upon competitiveness and sustainable development of a region, society etc. | | |
| Contact person | Forename and surname | OLEXANDR BABICH | |
| | Contact details | Ukraine, 69063 Zaporizhzhya, Zhukovsky Str. 64 Tel./Fax +38 061 7698454; +38 061 7641090 aleksbabich@ukr.net ; http://www.zntu.edu.ua | |

ID no: TCo 116

| | | |
|--|---|---|
| Title of Project | Centre for Innovation and Technology Transfer. | |
| Name of Institution and address | University of Warmia and Mazury in Olsztyn POLAND; 10-719 Olsztyn, Prawocheńskiego Str. 4 | |
| Type of institution | University | |
| Institution profile | <p>University of Warmia and Mazury in Olsztyn was established on 9 July 1999. It follows the medieval model of a university by assembling basic and applied sciences – from theology through to agriculture and economics, biology, veterinary sciences, the humanities, fine arts, mathematics, etc. This variety of academic disciplines constitutes new quality in Polish system of higher education. The University of Warmia and Mazury has abandoned the Humboldt model (offering education only in basic sciences) and has returned to the classic model which includes four basic faculties: philosophy, medicine, theology and liberal arts.</p> <p>The Warmia and Mazury University in Olsztyn has a special place in the Polish academic education system. It is the second biggest agricultural university in Poland and the biggest in north-east Poland. It strengths results from both teaching and research achievements. It has 16 faculties and employs about 1700 university teachers including 395 professors.</p> <p>The University is actively participating in many national and international programmes, and is very active in reshaping its research and educational policy. It has also very strong links with industry especially agro food and fishery sector as well as eco-energy and environment protection. Taking into account the number of patents, patent applications and implementations of new technology in the industry UWM is the leading research institution in the region. Moreover University is closely co-operating with regional and local authorities such as Marshal Office, Warmia and Mazury Agency of Regional Development, Employment Office in Olsztyn, Warmia and Mazury Voivodship Office, Regional Center of Extension and Development in Agriculture, Warmia and Mazury Agricultural Chamber and others.</p> <p>University takes part in realisation of the Regional Innovation Strategy which our region has started within the 5 th Framework Programme (5FP) in 2002.</p> <p>The international co-operation is carried out within 40 bilateral agreements with foreign research and teaching institutions from many European and overseas countries.</p> | |
| Main subject of activity | KEY WORDS | |
| Project description | <p>Centre for Innovation and Technology Transfer was established at UWM in 2007 as a centre of cooperation between R&D sector and regional economy.</p> <p>CITT cooperates local and regional entrepreneurs, the associations of the entrepreneurs and higher education institutions and R&D units. CITT offers various services:</p> <ul style="list-style-type: none"> ▪ assistance in partner search - helps entrepreneurs and researchers from region to establish contacts with companies and research institutes in over 30 countries in the world; ▪ technology audit - provide assistance for entrepreneurs regarding identification of their technology needs and potential; ▪ provide access to several thousands of innovative technologies from network databases, organise technology missions and individual partner meetings; ▪ promotion of international technology partnerships, transfer and other themes: innovation, protection of intellectual and industrial ownership, possibilities of financing innovative actions from the UE funds - special workshops, conferences; ▪ organisation of internships in companies for PhD students and researchers. <p>Centre for Innovation and Technology Transfer activities are focused mainly on:</p> <ol style="list-style-type: none"> 1. implementation of projects with the aim of knowledge and innovation transfer to regional economy (Innovation Relay Centre Network, Enterprise Europe Network, internships for academic workers in companies, scholarships for PhD thesis that resolve entrepreneurs' problems, national technology transfer to economy etc.); 2. carrying our regional surveys and research (needs of economy for best qualified workers, efficiency of using the UE funds in regional development, an impact of foreign investment on rising employment level and an inflow of new technologies, directions of changes in the regional economy structure, evaluation of innovation and competitiveness of Warmia and Mazury economy, social integration problems in region and others); 3. providing experts' services for local and regional administration (diagnosing economic and social sphere, strategic and operational planning, advisory in resolving technical and organisational problems etc.); 4. providing educational and training services for company workers. 5. statements of technology innovativeness. | |
| Stage of project | Full exploitation | |
| Type of sought partner | University Research Institute Large Industry SME | |
| The area of expertise | We are looking for a companies and research institutions to establish transregional co-operation. | |
| Contact person | Forename and surname | ANNA KAMIŃSKA - BISIOR |
| | Contact details | Centre for Innovation and Technology Transfer Poland, 10-719 Olsztyn, Prawocheńskiego Str. 4 Tel. +48 089 5233900; Fax. +48 089 5234300 ciitt@uwm.edu.pl; www.uwm.edu.pl/ciitt |

List of participants:

| Family Name | First Name | Company | Country |
|--------------|---------------|---|---------|
| Antosiewicz | Maria | National Contact Point for Research Programmes of the UE | Poland |
| Avramenko | Volodymyr | International Clinic of Rehabilitation | Ukraine |
| Babich | Olexandr | Zaporizhzhya National Technical University | Ukraine |
| Baczewski | Janusz | EDC Sp. z o.o. | Poland |
| Bąk | Małgorzata | Ecoservice Małgorzata Bąk | Poland |
| Białkowski | Wacław Julian | Innovative Eastern Poland Association | Poland |
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| Borowy | Michał | Warsaw University of Life Sciences-SGGW | Poland |
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| Busłowicz | Jerzy | BUSICO | Poland |
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| Chaikovsky | Illya | Glushkov Institute of Cybernetics NAS of Ukraine | Ukraine |
| Chekan | Mikalai | PLASMOTEG Engineering Centre of the Physical Technical Institute | Belarus |
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| Chmielewska | Danuta | The Institute of Glass, Ceramics, Refractory and construction Materials | Poland |
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| Chvorik | Natalia | Grodno Medical State University | Belarus |
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| Dolatowski | Zbigniew | University of Life Science in Lublin | Poland |
| Doliński | Adam | Warsaw University of Technology | Poland |
| Dovbenko | Viacheslav | Lviv National Polytechnic University | Ukraine |
| Dumania | Piotr | Institute of Electron Technology | Poland |
| Dutka | Ihor | MEDITECH Ltd. | Ukraine |
| Dzido | Tadeusz | Medical University of Lublin | Poland |
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| Figiel | Szczepan | University of Warmia and Mazury in Olsztyn | Poland |
| Gradoń | Leon | Warsaw University of Technology | Poland |
| Grzelakowska | Halina | The Council of The Polish Federation of Engineering Associations – NOT Białystok | Poland |
| Hrytsay | Ihor | Lviv Polytechnic National University | Ukraine |
| Ihnatouski | Mikhail | The State Scientific Institution "The Research Center of Resources Saving Problems of The National Academy of Science of Belarus" | Belarus |

| Family Name | First Name | Company | Country |
|-------------------|------------|---|---------|
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| Kleszczewski | Tomasz | The Institute of Cosmetology and Health Care in Białystok | Poland |
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| Kozlenko | El'vira | Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine | Ukraine |
| Krawczyk-Dembicka | Elżbieta | Innovative Eastern Poland Association | Poland |
| Kroitor | Svetlana | The Institute of sociology of the National Academy of Sciences | Belarus |
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| Kulchytskyy | Ivan | Lviv Centre for Scientific Technical and Economic Information | Ukraine |
| Kurak | Stanisław | Science and Technology Park Poland – East in Suwalki | Poland |
| Kushnir | Antin | MEDITECH Ltd. | Ukraine |
| Kuzmin | Vitali | Republican Centre for Technology Transfer in Minsk | Belarus |
| Lakhovich | Yanina | Yanka Kupala Grodno State University | Belarus |
| Lasota | Michał | Institute of Fundamental Technical Problems Polish Academy of Science | Poland |
| Lebedzeu | Siarhei | Scientific-practical materials research centre institute of solid state physics and semiconductors National academy of sciences of Belarus | Belarus |

| Family Name | First Name | Company | Country |
|--------------------|--------------------|--|----------------|
| Liszka | Jacek | VOXEL S.A. | Poland |
| Lunkov | Sergiy | Research-and-Production Company "GRIS" LTD | Ukraine |
| Lysenko | Hanna | State Education Establishment "Belarusian Medical Academy of Post-Graduate Education" | Belarus |
| Łuczyński | Zygmunt | Institute of Electronic Materials Technology | Poland |
| Machula | Zbigniew | Ministry of Science and Higher Education | Poland |
| Mayik | Volodymyr | The Ukrainian Academy of Printing | Ukraine |
| Meerovskaya | Olga | Belarusian Institute of System Analysis and Information Support of Scientific and Technical Sphere | Belarus |
| Mikutski | Vitali | Powder Metallurgy Institute (PMI), National Academy of Sciences of Belarus | Belarus |
| Moćkun | Aneta | Medical University of Biaystok | Poland |
| Morshchavka | Sergii | Zaporizhzhya National Technical University | Ukraine |
| Nadolnik | Liliya | Institute of Pharmacology and Biochemistry of National Academy of Sciences of Belarus | Belarus |
| Niewczas | Agata | Department of Conservative Dentistry, Medical University of Lublin | Poland |
| Novik | Galina | Institute of Microbiology of Belarus National Academy of Sciences | Belarus |
| Nykyforov | Volodymyr | Kremenchuk Mykhaylo Ostrogradskiy State Polytechnic University | Ukraine |
| Ostashko | Vitaliy | State Clinical Scientific-Practical Telemedicine Center of the Ukrainian Ministry of Health | Ukraine |
| Paliy | Oleh | Scientific-production firm "Isto" | Ukraine |
| Paliy | Olga | Railway Clinical Hospital | Ukraine |
| Paliy | Svyatoslav | Scientific-production firm "Isto" | Ukraine |
| Palubinskaya | Swiatlana | Yanka Kupala Grodno State University/ Department of Sport and Rechabilitation | Belarus |
| Pankov | Vladimir | Belarusian State University | Belarus |
| Pęciak | Irma | Polish Agency for Enterprise Development | Poland |
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| Piekarska | Małgorzata | Municipality of Białystok | Poland |
| Piekarski | Jarostaw | National Contact Point fo Research Programemes of the UE | Poland |
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| Pilch- Kowalczyk | Marek | ALTERIS SP. Z O.O. | Poland |
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| Popławski | Wiesław Tadeusz | Białystok Technical University | Poland |
| Protsan | Yulian | Alliance NEW ENERGY of UKRAINE, Dnipropetrovs'k Office | Ukraine |
| Pukas | Andriy | Ternopil National Economic University | Ukraine |
| Raczkowski | Wiktor | Science and Technology Park Poland - East in Suwalki | Poland |
| Reznikova | Svitlana | Institute for modelling in energy engineering, National Academy of Sciences of Ukraine | Ukraine |

| Family Name | First Name | Company | Country |
|----------------------|------------|---|---------|
| Romanenko | Igor | Ukrainian Children Cardiac Center | Ukraine |
| Ryzhkov | Andriy | Tavria State Agrotechnological University | Ukraine |
| Samulowski | Wojciech | University of Warmia and Mazury in Olsztyn | Poland |
| Shcherba | Halyna | Lviv National University named Ivan Franko | Ukraine |
| Shpakov | Andrej | Yanka Kupala Grodno State University | Belarus |
| Shpakova | Natalia | Yanka Kupala Grodno State University | Belarus |
| Shukhatovich | Viyaleta | The Institute of sociology of the National Academy of Sciences | Belarus |
| Smertenko | Petro | EUREKA | Ukraine |
| Sobolewski | Andrzej | ABG S.A. | Poland |
| Sokołowska | Kinga | The Medicine of Poland Southern- East Cluster Tarnow | Poland |
| Sołowiej | Justyna | Municipality of Bialystok | Poland |
| Sołowiej | Piotr | University of Warmia and Mazury in Olsztyn | Poland |
| Stalewska | Joanna | Institute of Fundamental Technical Problems Polish Academy of Science | Poland |
| Sukhava | Anzhalika | Yanka Kupala Grodno State University | Belarus |
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| Szabatin | Roman | Warsaw University of Technology | Poland |
| Szczepański | Paweł | Warsaw University of Technology | Poland |
| Szczurko | Jan | Military University of Technology | Poland |
| Szkiładź | Ewa | National Contact Point fo Research Programemes of the UE | Poland |
| Szmidt | Jan | Warsaw University of Technology | Poland |
| Szynka | Jerzy | Institute of Electron Technology | Poland |
| Ślązak | Piotr | Medical University of Lublin | Poland |
| Tkachenko | Olena | National University "Lvivska Politechnica" | Ukraine |
| Tokarski | Jerzy | National Centre for Research and Development | Poland |
| Tomulewicz-Mikołajuk | Dorota | The Institute of Cosmetology and Health Care in Bialystok | Poland |
| Torbicz | Andrzej | Medical University of Lublin | Poland |
| Traczyk | Stanisław | The Institute of Glass, Ceramics, Refractory and construction Materials | Poland |
| Treszczotko | Joanna | Innovative Eastern Poland Association | Poland |
| Trojanowski | Krzysztof | Institute of Fundamental Technical Problems Polish Academy of Science | Poland |
| Turlej | Dariusz | Warsaw University of Technology | Poland |
| Viviani | Luca | Vostor | Belarus |
| Walasek | Tadeusz | Warsaw University of Technology | Poland |
| Wawruk | Jerzy | Science and Technology Park Poland - East in Suwalki | Poland |
| Winięcki | Wiesław | Warsaw University of Technology | Poland |
| Witek | Andrzej | The Medicine of Poland Southern- East Cluster Tarnow | Poland |

| Family Name | First Name | Company | Country |
|--------------------|-------------------|--|----------------|
| Wołkowycki | Jerzy | The Council of The Polish Federation of Engineering Associations – NOT Białystok | Poland |
| Yatsunienko | Anatoly | Institute of Technical Mechanics of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine | Ukraine |
| Zaremba | Krzysztof | Warsaw University of Technology | Poland |
| Zasiadły | Krzysztof | Business Innovation Centre | Poland |

The idea of brokerage event

The aim of the brokerage event is to provide the opportunity for participants to build up the contacts in the business. The individual meetings enable to establish collaboration and to present the requirements and needs referring to the future cooperation.

During the brokerage event there will be the possibility for participants to arrange the meetings with the potential partners.

The individual meetings can be organised by the participants by themselves or with help of information desk.

If you fill the Appointment Form the information desk will assist you with location the company you wish to meet and with the meeting place reservation.

APPOINTMENT FORM

Institution/Company name:

Represented by:

Would like to meet:

Company name:

Represented by:

Time

Thursday, April 22 9.00 – 11.00 11.00 – 13.00
 14.00 – 17.30

Friday, October 19 9.00 – 12.30

To be filled in by the information

Meeting confirmed Yes No

Remarks