

PARTNERSHIPS



STCU Technology Opportunities
DECEMBER 2003



Who Are We?

The Science and Technology Center in Ukraine is an intergovernmental, non-profit organization created with the goal of aiding unemployed or underemployed scientists previously working on the development of weapons of mass destruction.

The Center is financed by Canada, the European Union, Ukraine and the USA and conducts its work in Azerbaijan, Georgia, Ukraine and Uzbekistan.

The STCU finances projects which convert the military know-how of the scientists of our recipient states into peaceful civilian applications. In addition to 'Regular Projects' funded directly by the STCU, the Center also works in a number of other spheres, including: Partnership Projects, Matchmaking, Promotional Missions, Seminars and Workshops, Travel Grants and Patenting Support.

Our international team consists of top professionals with expertise in project management, logistics, finance, and marketing, enabling the STCU to provide world class services to our partners and scientific institutions.





Welcome to a New Kind of Partnership

The STCU is proud to present the second issue of the R&D Partnerships Newsletter. This latest newsletter provides an update on the successful work that has been conducted at the STCU in the later half of 2003 with regards to providing opportunities for R&D partnerships in Georgia, Ukraine, Uzbekistan, and our newest member country, Azerbaijan.

The second half of 2003 has certainly been a busy time at the STCU. We have witnessed the official opening of our new office building in Kyiv, the accession of Azerbaijan to the STCU Agreement and opening of our representative office in Baku, visits from numerous delegations from around the globe as well as the organization and participation in workshops and conferences spanning three different continents, and much more. As always, the Center's staff has been working actively to promote the R&D opportunities of our member states; home of some of the leading science and technologies in the world.

In December, the 17th Governing Board meeting of the STCU approved an additional US \$7 million for new projects funded by our sponsoring governments and *Partners.* These new funds bring the total amount of funds approved to approximately US \$105 million.

We hope this newsletter provides you not only with an update of the STCU's activities but also as a source of information for various R&D opportunities available in the STCU member states. We look forward to working with you to help you develop an R&D partnership to meet your needs.



Yves Carmel STCU Executive Director





Official Opening of the New STCU Office



On June 16, 2003 the STCU held an Official Ribbon Cutting Ceremony and Reception to mark the opening of the new office located at 21 Kamenyariv Street in Kyiv. The new office is newer and larger than the former premises at Laboratorniy Provulok with various meeting rooms and a computer facility where the Center's scientists and engineers can enjoy access to the Internet and the *Knowledge Express* database. The new office building should satisfy the Center's growing needs for years to come.

Present at the event were ambassadors from various diplomatic missions, high-level representatives of the Ukrainian government, as well as members of the Ukrainian scientific community and local news media.

The ceremony included speeches by Chairman of the STCU Governing Board Stephen C. Engelken, Executive Director Yves Carmel, and Senior Deputy Executive Director Borys Atamanenko. The actual Ribbon Cutting Ceremony

was performed by STCU Chairman of the Governing Board, Stephen Engelken, Ukrainian Deputy Minister for Education and Science, Andriy Gurzhiy, Ambassador of the European Commission to Ukraine, Norbert Jousten, Ambassador of Canada, Andrew Robinson, and Ambassador of Greece, Panayotis Goumas.

Did you know...



...that the STCU also has Country Information Offices in Baku, Tashkent and Tbilisi, as well as Ukrainian Regional Offices in Dnipropetrovsk, Lviv and Kharkiv?



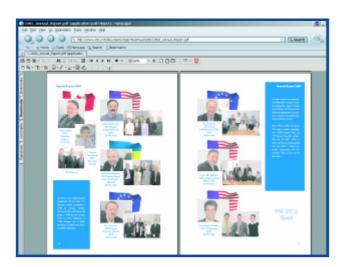




Launching of New STCU Website

On 16 July 2003, after a four-month successful team effort, the STCU unveiled its newly-redesigned website (www.stcu.int). While the most obvious difference is the visual design of the site, a great deal more lies beneath the surface. Some of the major enhancements include a clearly defined site structure, considerably streamlined site programming, and most importantly for all visitors, the greatly enhanced content. All of the most important STCU documents have been placed on the site; other documents shall be added as they are required. Furthermore, descriptions of the STCU's activities, both Regular Projects and the Partnership Program, have their own section with full details. A concerted effort was made to help new visitors to the site learn more about the STCU with an extensive "About Us" section and also sections for Recent News, Announcements and STCU Success Stories.

All in all, the site has something for anyone who comes to visit. The team –





indeed, all of the STCU's staff – have worked very hard to complete the enhancements, though they are by no means finalized. In the coming months, the site will add a new, full-featured search facility, a complete historical archive of all STCU projects, discussion boards, and much more.

As always, a website is driven by its users. While the project team and the entire STCU staff have made a concerted effort to build the best possible site for its users, we realize that improvements can always be made. Please feel free to contact us (webmaster@stcu.int) at any time with your requests, suggestions, comments or complaints.





16th STCU Governing Board Meeting Joint Statement, June 12, 2003



The Sixteenth Meeting of the Governing Board of the Science and Technology Center in Ukraine (STCU) convened on June 12, 2003 in Samarkand, Uzbekistan, approving 40 new regular, government funded scientific projects for a total of US \$4.1 million and EUR €1.5 million. The Governing Board also confirmed 12 Partnership Projects valued at US \$3.2 million and EUR €30,700, and confirmed 7 Partnership Project contract extensions valued at US \$758,000 and EUR €265,000.

The STCU Governing Board meets on a semi-annual basis in order to determine the Center's policies and funding for scientific projects. The STCU Secretariat, located in Kyiv, Ukraine, is the main body responsible for fulfilling STCU decisions and policies on a daily basis. This year, the 16th Governing Board meeting took place in Samarkand; this is the first

time the Board has ever met outside of Kyiv.

From 1995-2003, the STCU donors committed to projects the following funds: US \$74.2 million and EUR €8.4 million.

In 1997, the Government of Uzbekistan acceded to the STCU Agreement and the STCU Information Office opened in Tashkent in February, 2002. Prior to the 16th Governing Board Meeting, there were 35 regular projects and 2 partnership projects funded in Uzbekistan. The total amount of funding for all Uzbekistan projects up to this date was US \$5.7 million and EUR €385,000.

The 16th Governing Board meeting in Samarkand approved 10 new regular projects totaling US \$1.6 million and EUR €472,000 and 5 new partnership projects for Uzbekistan totaling US \$1.5 million.







This brings the total activity in Uzbekistan to date to the following:

- Number of Regular Projects (non-private sector funds): 45 Projects
- Number of Partnership Projects (nonfunding party funds): 7 Projects
- Total Funds approved to date: US \$8.8 million and EUR €857,000



Welcome to New STCU Partners

Beginning in 1997, the STCU undertook a new endeavour in its goal of achieving greater sustainability by commencing the Partnership Program. The goal of the program is to create partnerships between our recipient and donor country companies, scientists and institutes for the development and promotion of R&D projects.

At the 16th STCU Governing Board Meeting in Uzbekistan, four new Western companies joined the Partnership Program. The STCU welcomes these new Partners and looks forward to providing them with the best possible assistance in realising their R&D goals.

These Partners are:

- Cast Steel Products Innovative Engineering Ltd. (Canada)
- 4120477 Manitoba Ltd. (Canada)
- MARIS B.V. (Mariene Informatie Service B.V.) (EU)
- World Precision Instruments, Inc. (USA)

Did you know...



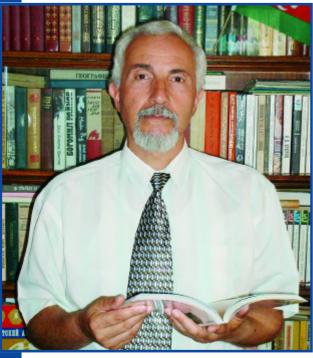
...that the STCU now has 90 Partners from Canada, the EU and USA who provide a total of US \$21.6 million in R&D investments for 128 different projects?





Azerbaijan Joins the STCU

The STCU is proud to announce the accession of Azerbaijan to the international Agreement to Establish a Science and Technology Center in Ukraine.



Azerbaijan has been an important scientific and industrial center in the Caucasus region since the Soviet period. Thanks to the attention paid to science in the former USSR, and also due to its vast oil and gas reserves which have become of global importance, the country has produced many highly qualified scientists in the areas of physics and chemistry.

In late April, Executive Director Yves Carmel and Deputy Executive Director (USA) Arthur DuCharme visited Baku with the purpose of advancing the accession process of Azerbaijan to the STCU. The President of the National Academy of Sciences informed Mr. Carmel in late May that the Parliament of Azerbaijan had approved their accession to the STCU agreement thus making them the fourth recipient member state to have joined the STCU.

The Center is also proud to welcome Dr. Adalat Gasanov as the STCU Information Officer in the Baku office. A welcome addition to the STCU staff, Dr. Gasanov is a Ph.D. Geophysicist with considerable business and NGO experience. His responsibilities will include inter alia promoting the STCU among the Azerbaijani scientific community, assisting with project proposal preparation and project monitoring, as well as supporting communications between the STCU's Kyiv headquarters and scientific teams in the region. The STCU's Azerbaijan Information Office will be located at the Institute of Physics in Baku.

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Quick Facts Azerbaijan

Population: 7.8 million (July 2003 est.)

Urban - 51 % Rural - 49 %

Principal religion: Islam
Area: 86,600 sq km
Scientific workers: 8,000
-Researchers: 4,004

-Ph.D.'s: 1,969

-Doctors of Science: 485





CIDA Matchmaking Mission to Ukraine

In an effort to promote Ukrainian R&D opportunities to prospective partners, the STCU hosted a delegation of thirteen Canadian business representatives under the auspices of the Matchmaking Program. Among the companies represented were: Bio Resonance Technologies Inc., P&P Optical Inc., Netmosphere Management Group Inc., VSM/CTF Systems Inc., Theralase Inc., Bortec Inc., Institute for Biodiagnostics, Walsh Medical Devices, NIR Technologies Inc., NRC/IRAP, and Max Systems Inc. This mission, sponsored Canadian International Development Agency (CIDA) with a special focus on medical imaging, visited Ukraine between October 20 and 31, 2003.

CIDA missions have been an integral part of STCU activities since 1997. This latest CIDA mission provided a unique opportunity for Ukrainian scientific institutions to present their innovations and technological solutions related to X-ray Magnetic Resonance Imaging, infrared, ultra sound, impedence tomography, laser, and pressure sensors etc. to potential Canadian partners. It provided a chance for Canadian business people to meet with Ukrainian scientists and discuss opportunities through partnership prescheduled one-on-one meetings with the heads of R&D projects.

Prior to their arrival in Ukraine, the Canadian participants supplied the STCU with their topics of interest. STCU staff then proceeded by establishing matches in accordance with their needs and organized individual meetings with the institutions.



What did the event include?

- Seventy one-on-one pre-organized meetings with scientific institutions in 5 Ukrainian cities;
- A briefing session conducted for the Canadian delegation by STCU staff on how to work through the STCU;
- An information session for Ukrainian scientists covering a variety of topics on how to participate in a tender and make a successful bid.

As an outcome of this successful matchmaking event, the STCU is anticipating the commencement of seven new Partnership Projects.

According to one of the members of the Canadian delegation, Dr. Scott Day of Bortec Biomedical Ltd. "It is my firm opinion, that the comfort gleaned from this type of service delivered by the STCU is an underestimated factor in the final decision to undertake a project in an eastern country such as Ukraine".





SUCCESS STORY Grinding of Biomass Materials Down to Micron Levels

Former Ukrainian weapons scientists, civilian scientists, and American entrepreneurs have pooled their expertise and know-how into a unique STCU biomass grinding project that has yielded remarkable technical results and promises greater commercial success. Yet even before the completion of the project, spin-off applications have been identified, successfully demonstrated, and discussions are underway for their commercialization.

The original project takes advantage of technical knowledge gained from the development of ballistic missile delivery systems—specifically, particulate reduction technologies employed in the manufacturing processes for propellants and insulating materials—to reduce and separate agricultural waste by-products (such as sunflower seed husks, rice hulls, and wheat straw) to micron levels. It is proposed to blend these materials with agricultural and industrial products to reduce waste dis-



posal and improve existing products by employing the recovered materials in food for farm animals, fertilizer for plants, additives for many consumer goods, or fillers for engineered materials. In the specific case of ground straw, the product has been combined with polypropylene to manufacture strong, light-weight parts for civilian applications.

The technical puzzle that challenged the Ukrainian scientists at Texmet was how to grind soft, flexible biomass materials to required levels without adversely altering their mechanical characteristics through chemical or thermal means. From their side, U.S.-based Pinnacle Technology, Inc. has dedicated itself to provide marketing expertise to identify uses for potential biomass applications, while the Department of Energy's Kansas City Plant provided expertise in fine particle analysis. Together, these three organizations have successfully demonstrated the industrial-level production capability of the Ukrainian technology, and have identified potential clients interested in purchasing such grinding technology. For its part, the STCU facilitated project implementation by providing valuable on-site monitoring (subject to frequent internatechnical and financial audits), logistics support, VAT exemptions for major purchases and for the salaries of Ukrainian scientists as well as transparency in front of the Ukrainian authorities—all of which remove a significant burden from the western funding partners.

It is currently foreseen that the





grinding and separation systems will be manufactured in Dnipropetrovsk, Ukraine, while Pinnacle Technology will market these systems around the world.

All over the world, the adverse ecological impact of the literally millions of tons of waste in the form of automobile tires is of considerable concern to policy makers and citizens alike. Recycling such materials is complicated by the engineering difficulties of reducing soft, pliable rubber to the micron level where it becomes commercially viable—without altering its chemical, thermal, and mechanical characteristics. Texmet's western contacts, having recognized the commercial potential of such a process, requested the Ukrainians to demonstrate the feasibility of applying their grinding technology to the reduction of tire rubber to micron levels at anticipated industrial capacities. Despite clear difficulties, the Ukrainians successfully overcame even this challenge. As a result, the Ukrainian project manager has been invited to travel to the U.S. to explore the commercialization of rubber grinding technology as well. Moreover, while in the United States, yet another possible application will be explored: the

extraction of silicon carbide from rice hulls. It is hoped that further discussions will identify even more potential applications of the grinding technology and its promise for expanded commercial applications.

Project Manager: Professor Petro

Soroka

Organization: Texmet Scientific and

Manufacturing Company

STCU Project: P-064 - "Development of Advanced Grinding Technology

for Biomass"

Start Date: 01 January 2001 (for 31 months - including two temporary suspensions and a five-month

extension)

STCU Funding: US \$175,000 Weapons Scientists: 19

Did you know...



...that the STCU provides its member institutions with services such as Patenting Support, training on Intellectual Property Rights and Travel Grants?





SUCCESS STORY New Uses for High-Strength Titanium Alloys

Ukraine is blessed with an abundance of mineral resources which continue to be key to the overall development of the economy. In particular, the industries based on titanium have contributed significantly to the country's export profile. A natural consequence is that an elite group of research facilities have emerged over the years with the objective of advancing the economic exploitation of this resource by strengthening titanium-based material designs and developing experimental technologies for new materials manufacture: one of the leaders in this field is the Kurdvumov Institute of Metal Physics of the National Academy of Sciences of Ukraine located in Kyiv.

Professor Orest Ivasyshyn, a Corresponding Member National Academy of Sciences of Ukraine and a widely known specialist in titanium alloys and steels, began his collaboration with the STCU soon after the Center was established. His first project, entitled "Titanium Alloys with Stable Mechanical Characteristics for Exploitation in a Wide Temperature Range," led to the full characterization of the rapid-heat-treatment process. He applied this new technology through a second STCU project on brittle fracture research which, in turn, led to a joint project with U.S. and Canadian collaborators. This collaborative effort led to the development of a new, economical method of producing automobile parts made of titanium alloys. Dr. Ivasyshyn currently has Partnership projects with the European Office of Aerospace Research and Development.

Through the STCU's Patent Support Program, Dr. Ivasyshyn has filed four Ukrainian and two US patent applications and is currently in the process of concluding agreements with American automotive firms on a number of commercial R&D projects.

Project Manager: Professor Orest

Ivasyshyn

Organization: Kurdyumov Institute

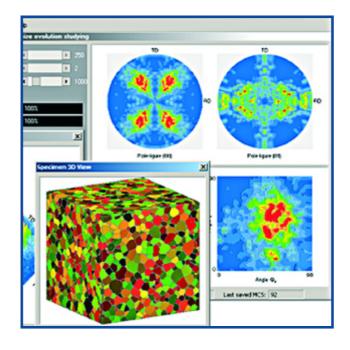
of Metal Physics, Kyiv

STCU Project: P057 - "Advanced

Processes for High-Strength

Titanium Alloys"

Start Date: February 2001 (for 36 months, in two stages)
STCU Funding: US \$260,000
Weapons Scientists: 15







STCU Mission Visits Spain

The Business Development Group which is entrusted with providing presentations in European Union countries about the Partnership Program and other STCU activities, conducted its fourth Promotional Mission with a visit to Spain on 10-14 November, 2003. The main aim of this initiative is to make the STCU better known in Europe and to find new Partners in EU countries. The STCU delegation visited three Spanish cities, namely, Madrid, Bilbao and Barcelona.

The visit was organized by the Centre for the Development of Industrial Technologies. During the meetings, the STCU team worked in collaboration with both national and provincial governmental authorities. Spanish governmental bodies were represented by the Ministry of Science and Technologies, Ministry of Industry, Commerce and Tourism and the Basque government.

The programs included welcoming remarks, introductions and presentations by Spanish institutions including: **EADS-CASA** (Construcciones Aeronauticas), the Centre of Energy, Environment and Technology Research (CIEMAT), CDTI (Parque Tecnologico de Galicia), a network of R&D organizations from Catalonia, the Society for the Industrial Promotion and Modernization of the Basque Country (SPRI), the Technology Park of Zamudio and SARETEK (Science, Technology and Innovation Network of the Basque Country) and, of course, STCU presentations.

The themes of these presentations covered the R&D co-operation between Spain and Ukraine, mechanisms for supporting and funding this co-operation,



the European approach to cooperating with Ukraine, Ukraine's R&D potential and the role of the STCU with examples of current projects.

The STCU delegation visited 18 organizations in Spain during its three-day stay. During these meetings, the STCU team worked with 25 individuals representing both national and provincial governmental authorities, two technoparks, high-tech start-up SMEs and other private companies as well as Spanish universities. The European Aerospace Agency - Spain Office, was among the European institutions which were visited.

The main aim of this Promotional Mission - to spread information about the STCU and its Partnership Program - was fully accomplished. A second aim was to identify the principal point of contact and try to convince the Spanish side of using the Canadian (CIDA) model of promoting and implementing the Partnership Program. The STCU team expects that a number of new Partnership Projects will result from this latest mission.





International Workshop on Biotechnology Commercialization and Security





International Workshop Biotechnology Commercialization and Security held in Tashkent, Uzbekistan from October 14 - 17, 2003, was a successful effort to bring together a multinational collection of experts in fields as as genetic engineering, defense conversion, patent law and biosecurity. This was the second workshop supported by the Science and Technology Center in Ukraine and it attracted delegates from commercial, governmental, scientific and research organizations from Georgia, Russia, Ukraine and Uzbekistan as well as from Canada, the EU and the USA.

With scientists and policy specialists from six countries, the four days of presentations generated a hefty compilation of research abstracts, numerous site visits and often animated question-andanswer sessions following many of the talks. The objectives of strengthening

cooperation between STCU country researchers and the world scientific community were clearly met through developing means to accelerate the defense conversion process in Uzbekistan in the area of biotechnology and advancing commercialization opportunities in the fields of biotechnology and biosecurity.

The workshop addressed the following issues:

- Defense conversion of the former Soviet bioweapons program in Uzbekistan and the proliferation threat;
- Current legislation and the legal framework surrounding the biotech, medical and pharmaceutical industries in Uzbekistan;
- Commercial regulatory issues affecting Western investment in key Uzbek bioindustries;
- Recent R&D advances in biosecurity applications.









According to STCU Tashkent Office representatives who took a count of participants, some 250 people attended the opening ceremony in the main conference hall of the Presidium of the Uzbek Academy of Sciences. From there, the sessions moved to the Radisson SAS hotel where an average of between 50 - 100 participants attended each presentation.

The talks given by scientists from Georgia, Russia, Ukraine and Uzbekistan tended to be technical in nature and often led to a large number of questions from the audience at the conclusion of each presentation. Many of the Western presentations dealt with policy issues, commercialization and specific bilateral programs. The STCU is placing most of these presentations on the Center's website, along with many of the technical abstracts. More than 20 Western specialists participated in the conference.

There were a number of specially arranged site visits in addition to the delegation tour of the Institute of Zoology where opportunities for future cooperation were disscussed.

The Institute poster presentation aroused a great deal of interest and attracted the attention of the Uzbek mass media.

The STCU hopes that a number of joint projects shall result from this workshop. The Center will now be considering further steps, such as the organization of a specialized workshop or a focused trade fair in the West.



Quick Facts Uzbekistan

Population: 25,981,647 (July 2003 est.)

Urban - 40% **Rural - 60%**

Principal religion: Islam Area: 447,400 sq km Scientific workers: 42,000

-Researchers: 2,000 -Ph.D.'s: 15,100

-Doctors of Science: 2,100





The STCU as an Instrument for Developing an EU-Ukraine Research Partnership

On November 3, 2003, the Albert Borschette Centre in Brussels, Belgium hosted an information session entitled "The Science and Technology Center in Ukraine as an Instrument for Developina an EU-Ukraine R&D Partnership." The event was one of the first of a series of closer joint interactions with the European Union and its institutions initiated by the STCU. The objective of this information session was to provide information and establish networks that would permit for a better use of the STCU as an instrument for European organizations to achieve some of their goals in Ukraine.

The event was organized in close collaboration with the European Commission and the Mission of Ukraine to the European Union.

STCU Executive Director, Yves Carmel and STCU Senior Deputy Executive Director, Borys Atamanenko welcomed more than 100 representatives from the European Commission, European Parliament, European Council, European Economic and Social Committee, diplomatic and regional missions in Brussels, scientific centres, NGOs, private business and mass media to the conference.

The audience was provided with opening statements from Roman Shpek, Head of the Mission of Ukraine to the European Union, Philippe Busquin, Commissioner for Research, European Commission, Vasil Kremen, Minister of Education and Science of Ukraine, and Louis Bellemin, Head of Unit, International Scientific Cooperation Policy Research Directorate-General, European Commission.

The information session was followed

by a reception sponsored by the Mission of Ukraine to the European Union. During the reception a poster display was presented by some of Ukraine's finest scientists who gave practical examples of their R&D projects highlighting major technology areas including: energy conservation and production, biotechnology, medicine and healthcare, environmental monitoring and protection, material science and information technologies, equipment and devices and experimental industrial technologies.

Nine scientists from some of Ukraine's leading scientific institutions, and senior STCU staff, gave presentations and presented participants with information about their institutes' competence and possibilities for cooperation through the STCU.

According to New Europe in its article entitled "EU to Tap into Ukraine's Scientific Human Capital" thanks to this latest STCU mission, "the European Union and Ukraine moved ahead into a new level of scientific cooperation…"







STCU Mission to Philadelphia

The STCU recently contributed to business development and the promotion of Ukrainian high technologies in the US market by participating in an exhibition/conference entitled "Partnerships for Prosperity & Security: Accessing Innovative Technologies from Russia, Ukraine & Kazakhstan", held in Philadelphia, USA on November 5 and 6, 2003. The event was sponsored by the National Nuclear Security Administration (NNSA) of the United States Department of Energy.

The conference brought together over 120 technology exhibitors from Kazakhstan, Russia, and Ukraine as well as over 20 non-technology exhibitors including US and multinational organizations working in the area of non-proliferation and those facilitating R&D and business partnerships. Hundreds of American public and private companies visited the exhibition. The event provided excellent opportunities for networking, the establishment of new contacts, and furthering partnerships.





Numerous visitors and exhibitors stopped by the STCU booth and received the 2002 Annual Report, R&D Partnerships booklet, information booklets highlighting selected technologies as well as other promotional materials. Over one hundred contacts were established thanks to this event, many of which have already included suggestions for future cooperation.

According to David Eakin, Sr. Development Engineer, and a representative of one of the STCU's partners, Pacific Northwest National Laboratory, "The STCU display at the exhibition was very well done and, of course, the personnel did an excellent job of representing the STCU throughout the conference. We feel that exhibition/conference was very successful and beneficial to us, and I hope that the STCU staff had the same degree of success."





17th Governing Board Meeting of the STCU

The 17th Meeting of the Governing Board of the Science and Technology Center in Ukraine (STCU) convened on 4 December 2003 in Kyiv, Ukraine, approving 29 regular projects (including continuations) for a total of US \$3,005,456 + EUR €795,530. This included the introduction of 10 new Partners to the STCU since the June 2003 STCU Board of Governors meeting. Twelve new Partnership project activities were approved since the June Governing Board Meeting for a total of US \$2,701,797 and 6 Partnership Project extensions were also confirmed for a total of US \$279,388 + Euro €15,000.

The 17th Meeting of the STCU Governing Board, and their approval of the above mentioned sums now brings the total approved funding investments to over US \$100 million over the last ten years.

The STCU proudly works with our partners in Ukraine, the Ministry of Education and Science, and the National Academy of Science, which have been instrumental in helping aid Ukrainian former weapons scientists and engineers.





The Governing Board is pleased with the activities in Uzbekistan, Georgia and more recently Azerbaijan which acceded over the past year, and is also pleased with the progress to date in advancing the interest of Moldova in entering into an agreement with the STCU to become a member state.

This year also marks the 10th Anniversary of the establishment of the STCU. In order to celebrate the 10th Anniversary of its founding, the STCU held a reception after the Governing Board Meeting which marked the occasion not only for 10 years of work but also its investment of over US \$100 million into the scientific and technological capabilities of Azerbaijan, Georgia, Ukraine and Uzbekistan.

Among the dignitaries attending the ceremony were various ministers from the Ukrainian government, as well as members of the diplomatic, scientific and business communities from both Ukraine and abroad.





Points of Contact

CANADA

Sean Boyd

Senior Program Manager - Nuclear Safety Russia, Ukraine and Nuclear Programmes Division

Central and Eastern Europe Branch Canadian International Development Agency

200 Promenade du Portage Hull, Quebec, Canada, K1A 0GA (+1 819) 994-0923 (phone)

(+1 819) 994-0928 (fax) E-Mail: sean_boyd@acdi-cida.gc.ca

EUROPEAN UNION

Marthe Leonidou
Principal Administrator
International Scientific Cooperation Policy
European Commission
Research Directorate-General
Square de Meeûs 8
B-1050 Bruxelles, Belgium
(+32 2) 295-1422 (phone)
(+32 2) 296-9824 (fax)
E-Mail: marthe.leonidou@cec.eu.int

USA

Andrew Hood Senior Coordinator Science Centers Program Office of Proliferation Threat Reduction US Department of State Washington, DC 20520, USA (+1 202) 736-7190 (phone) (+1 202) 736-7698 (fax) E-Mail: hooda@t.state.gov

Jason N Witow
Advisor
Science Centers Program
Office of Proliferation Threat Reduction
US Department of State
Washington, DC 20520, USA
(+1 202) 736-7693 (phone)
(+1 202) 736-7698 (fax)
E-Mail: WitowJN@state.gov

STCU SECRETARIAT

21 Kamenyariv Street Kyiv, Ukraine 03138 (+380 44) 490-7150 (phone) (+380 44) 490-7145 (fax) Website: www.stcu.int E-Mail: stcu@stcu.int

Boris Komarov

Non-Governmental Partnerships Manager

E-Mail: boris.komarov@stcu.int

Lyubov Taranenko Governmental Partnerships Manager E-Mail: lyubov.taranenko@stcu.int

Borys Atamanenko Senior Deputy Executive Director (Ukraine) E-Mail: borys.atamanenko@stcu.int

Yves Carmel, eng., cmc Executive Director (Canada) E-Mail: yves.carmel@stcu.int

