

LANDAU NETWORK - CENTRO VOLTA (LNCV)

CONSTITUTION AND GOALS

The Landau Network-Centro Volta (LNCV)¹ is a high level, worldwide, non-profit, non-governmental organization for scientific and cultural co-operation dealing particularly with institutions and scientific communities of the former Soviet Union and Asian Countries. Its activities have led it to become an informative and consulting centre for Institutions, for the Italian Foreign Office and for Universities on global issues concerning disarmament and international security, environmental problems such as energy/water security and peaceful use of the knowledge achieved in biological sciences and nuclear technologies.

It has been founded in 1994 and activated at the beginning of 1995 in Como, Italy, as a specialized structure at the "A.Volta" Centre for Scientific Culture, which represents a meeting point among Universities, research centres and socio-economic realities.

LNCV was born mainly as the result of the commitment of the Cultural Relationships Direction of the Italian Foreign Office. It is recognized and financed by the Italian Ministry of Foreign Affairs, UNESCO Venice Office (UVO), ENEA, Lombardy Region and Municipality of Como. It receives collaboration for its activities from UVO, ENEA, the Italian Scientist Union for Disarmament (USPID), from the International Center of Genetic Engineering and Biotechnology (ICGEB) of Trieste and also from many other International Institutions. It received the approval of INTAS (International Association for the Promotion of Co-operation with Scientists from the Independent States of the Former Soviet Union) and of TMR (Training and Mobility Researchers Programme), being both organizations part of the European Community. LNCV has become the seat of:

- *UNESCO International School of Science for Peace* (established in December 1997)
- *Pugwash Conferences on Nuclear Disarmament* (first meeting in July 1999)²
- *An International Working Group for the European Nuclear Cities Initiatives* (first meeting in November 2001)

As for the activity concerning the scientific-technological co-operation with the countries of the Confederation of Independent States (CIS) and Italy, for several years the LNCV has been in charge of:

- assignment of temporary fellowships to professors and researchers of CIS countries in Universities and Research Institutes in Lombardy sponsored by the Cariplo Foundation (after a protocol of agreement with the Russian Academy of Sciences).
- assignment of temporary contracts to professors and researchers of the Russian Federation in Italian Universities and Research Institutes on behalf of the Foreign Office.

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² Pugwash Conferences are an International Organization dealing with international matters and security, disarmament and arms control awarded with the Nobel Prize for Peace in 1995.

- assignment of short-time (one or two weeks) fellowships to young Russian researchers to participate to International Conferences in Italy, sponsored by the Cariplo Foundation and the Russian Foundation for Basic Research (RFBR)³.

Moreover, LNCV is currently and continuously collaborating with the Italian Foreign Office to prepare documents and reports on scientific and technological problems in the context of disarmament, non-proliferation and scientific and technological aspects of international security, sustainable development and conversion for civil purposes of technologies and know-how developed in the defense sector, in preparation of draft consulting documents for international events and meetings in which Italy is one of the official participants.

GOALS

The priority goals of LNCV are:

- *meetings, seminars, working groups, project and study activity* with the participation of scientists and technicians of worldwide renown;
- *publication of books in the series "Science for Peace"* (published by UNESCO) collecting the meetings proceedings, documents and lectures produced in the context of the homonymous UNESCO International School,
- *permanent information service* on themes of strategic importance in post cold-war times such as disarmament, non-proliferation, military conversion for peace purposes, nuclear security, peaceful use of biological sciences and rational and efficient use of primary resources (energy, water and food resources, and so on) aimed at a sustainable and long lasting development compatible with the environment. Such activity is carried out through a series of informative reports and through a dedicated site in Internet (<http://www.mi.infn.it/~landnet>);
- *educational spreading*, through conference cycles in schools, museums, libraries;
- *links and collaborations* with other NGOs, international associations and institutions dealing with worldwide problems;
- *assignment of fellowships and research contracts* to scientists and professors from CIS countries for temporary stages in Italian Universities and Research Centres, with the support of the Cariplo Foundation and the Foreign Office.

CONGRESS ACTIVITIES AND SPIN OFF IN THE PERIOD 1996-1999

Congress activities of LNCV in 1996:

- International Forum on “*Management of the Excess of Fissile Weapons Materials: Scientific, Technological and Social-Economic Aspects*”, Villa Olmo, Como, 18-20 March 1996, organized in collaboration with the Foreign Office, ENEA and the UNESCO Venice office. This Forum has produced a working document for the Commission which represented Italy at the G7 Forum on nuclear security held in Moscow in April 1996. The

³ RFBR is the national Russian Foundation, with private and public capital, aimed at the promotion of scientific and technological research and at the support of international scientific projects and exchange models in which one of the partners must be the Russian Federation

main point of this document is the suggestion to choose the option of MOX in order to eliminate the military plutonium in civil nuclear power stations: this option in fact takes advantage of the best criteria of environmental security, non-proliferation and economy.

- International Forum on ***“Science for Peace”***, Villa Olmo, Como, 5-7 December 1996, in collaboration with the Foreign Office and the UNESCO Venice office. It has produced the so-called “Como declaration on Science, Ethics and Society” which has been adopted by the international UNESCO programme called “Culture for Peace”.

Activities in 1997 :

- International Forum on ***“Illegal Nuclear Traffics : Risks, Safeguards and Countermeasures”***, Villa Olmo, Como, 12-13 June 1997, organized in collaboration with the *International Technical Working Groups* (ITWG) on nuclear smuggling of the European Commission, the Foreign Office, the UNESCO Venice Office, ENEA and USPID. The final report of the Forum has underlined the need of a civil data bank to collect all the information dealing with the type, the isotopic characteristic and the quantity of the nuclear material stolen. This recommendation has been positively accepted by the European Commission.
- International Forum on ***“Nuclear and Biological Decommissioning : Management of Threats to Global Security”***, Villa Olmo, Como, 27-28 June 1997, organized in collaboration with the Foreign Office, the UNESCO Venice Office, and ENEA. The main result of the Forum dealt with the role of the international scientific community in establishing a cooperation aiming at the peaceful use of biological sciences, at the decommissioning of nuclear apparatuses and at the dismantling of nuclear submarines in the former-Soviet Union (which represent a serious environmental danger). The final report was used as a technical background for the first Forum of the UNESCO International School *“Science for peace”* by LNCV.
- International Forum of the UNESCO School on ***“Possible Consequences of the Misuse of Biological Sciences”***, Villa Olmo, Como, 3-6 December 1997, organized in collaboration with the Foreign Office, the UNESCO Venice office, and ICGEB. The final report of the Forum has produced a document, re-elaborated at the international Trieste conference, on 26-27 June 1998, regarding the implementation of the article X of the Biological and Toxin Weapons Convention-BWC.

Activities in 1998 :

- International Forum of the UNESCO School on ***“Energy Security in the Third Millennium: Scientific and Technological Issues”***, Villa Olmo, Como, 14-16 May 1998, organized in collaboration with the Foreign Office, the UNESCO Venice Office, ENEA and the Centre for Energy Policy (CEP) in Moscow. The most relevant part of the Forum has been the writing and approval of the final document, forwarded to the G8 Commission on energy policies, regarding the rational and efficient use of energy and the utilization of renewable energetic resources. This document has been the basic one adopted by ENEA for the national Conference on energy in November 1998. A parallel exhibition on “Bioclimatic Architecture”, has been held in Villa Erba, Cernobbio, Como.
- Scientific Organization, in collaboration with the International Centre for Genetic Engineering and Biotechnology (ICGEB) in Trieste, of the international Conference on

“Peaceful Use of Biotechnology and the Convention on Biological Weapons”, Trieste, 26-27 June 1998. The main result of the Conference was the elaboration of a document aiming at the implementation of the article X of BWC – regarding the scientific and technological cooperation in the area of the biotechnology- sent to the Group Ad Hoc of the States members of BWC in Geneva, where it received general agreement.

- International Forum of the UNESCO School on ***“Nuclear Disarmament, Management of Nuclear Materials and Collaboration among the National Laboratories”***, Villa Erba, Cernobbio-Como, 2-4 July 1998, organized in collaboration with the Foreign Office, the UNESCO Venice office, ENEA and USPID. The most important event of the Forum was the Round Table with Indian, Pakistani and Chinese representatives- just one month over the nuclear tests in India and Pakistan – on the future of the denuclearization in the South-East Asia. The Forum final document has suggested regional solutions to the denuclearization and that India and Pakistan should sign the TNP and CTBT Treaties.
- International School INTAS-RFBR of the European Commission on ***“Advanced methods in Quantum Field Theory, Statistical Mechanics and Dynamical Systems”***, Villa Olmo, Como, 7-20 September 1998, in collaboration with the Institute of Theoretical Physics P.L. Landau in Moscow. This School was attended by the most prominent Russian theoretical physicists and has been totally financed by the European Community through the project INTAS-RFBR.
- International School Training and Mobility Researchers Programme (TMR) of the European Commission on ***“Turbulence: Theoretical Frameworks and Industrial Applications”***, Villa Olmo, Como and Common Research Centre, Ispra, 7-12 September 1998, in collaboration with JRC-EU at Ispra. The School, totally financed by the European Commission, has seen for the first time the simultaneous participation of theoretical specialists and technicians representing mechanical and oil industries.
- Participation to the ***“III Mediterranean Exhibition on Technological Innovation (Mediterintec)”*** realizing a stand in the UNESCO area, held in Naples, 9-12 December 1998.

Activities in 1999:

- International Forum of the UNESCO School on ***“Water security in the third Millennium: the Mediterranean Countries towards a Common Management”***, Villa Olmo, Como, 12-15 April 1999, organized in collaboration with the Foreign Office, the UNESCO Venice office and JRC-EU at Ispra. In the Forum the general water situation in the Mediterranean area has been analyzed from the resources and uses point of view and a strategy aiming at a more rational utilization of water has been outlined. In particular the Jordan Valley reservoir shared among Israel, the Palestinian territories and Jordan has been dealt with. From the final document and papers a “case-study” on the 1999 water drought in the river Jordan reservoir has been issued. This case-study, supported by the European Centre at Ispra, will be at the base of a larger European project. A parallel exhibition, open to a several Italian enterprises of industrial water sector, has been held for all the period of the Forum.
- International Forum of the UNESCO School on ***“Southern Asia Nuclearization: Problems and Solutions”***, Council Hall, Como Town Hall, 20-23 May 1999, organized in collaboration with the Foreign Office, the UNESCO Venice office ENEA and USPID.

The Forum has analyzed the problems dealing with regional and international security resulting from the Indian and Pakistani nuclear tests in 1998. In particular they have identified the best measures to diminish the risk of a nuclear confrontation and to start a series of “confidence-building measures”. The Forum, the only one of this type in Europe in 1999, has seen the participation of a numerous Indian and Pakistani delegation, depending on the Ambassadors in Italy and the respective permanent delegations at the Disarmament Conference in Geneva. The final document will be forwarded to the Finnish European Presidency.

- 28th Workshop of the ***Pugwash Conferences on Nuclear Forces***, Council Hall, Como Town Hall, 9-10 July 1999. The meeting, entirely supported by the Municipality of Como, has seen the participation of Sir Joseph Rotblat, Nobel Prize for Peace in 1995 and one of the founders and former General-Secretary of the Pugwash Conferences. The Pugwash Conferences had a decisive role during the cold war period in crossing the nuclear armaments race and in drafting numerous international treaties on disarmament and non-proliferation, meant to establish a peace policy between the two great powers. The Landau Network-Centro Volta will host a meeting of the Pugwash Conferences every year.
- International School INTAS-RFBR of the European Commission on “***Advanced methods in Quantum Field Theory, Statistical Mechanics and Dynamical Systems***”, Villa Olmo, Como, 30 August-10 September 1999, in collaboration with the Institute of Theoretical Physics P.L. Landau in Moscow. This School was attended by the most prominent Russian theoretical physicists and has been totally financed by the European Community through the project INTAS-RFBR.
- Third Course of the summer school on “***Post-Communist Transition and Integration Processes with Europe***”, Cervia, 1-15 September 1999, organized in collaboration with the Foreign Office, Italeco SpA and FAO. This course dealt with the management of territory and the administrative and legal sides of the deeds and titles office in Central-East Europe. In particular, in the last day, the relationships between Italy and the East-European countries under the geopolitical and geoeconomic point of view have been analyzed. The course has produced a document that will be submitted to FAO and all participating Countries.
- 8th Castiglioncello International Conference on “***New Challenges from the Spread of Arms of Mass-Destruction***” Pasquini Castle, Castiglioncello, 23-26 September 1999, organized in collaboration with the Union of Scientists for Disarmament (USPID). The meeting, in which Indian, Pakistani, Korean, American, Russian, Hungarian and Chinese international experts took part, mainly dealt with the present state of world nuclear disarmament and the control on an inappropriate utilization of the last technologies in the fields of biological science and genetic engineering for terrorist uses.
- Seminar on “***European Nuclear Cities Initiative (ENCI)***”, Foreign Office, Rome, 27 September 1999, with the participation of the main responsible people of the Russian-American Programme called “Nuclear Cities Initiatives (NCI)”. The seminar aimed at introducing a European project parallel and complementary to NCI with the goal of newly outlining the whole system of the ten Russian nuclear cities and of orientating them towards technological activities for the civil sector by creating new working positions in the field of the new technologies aiming at safeguarding the environment, at energetic efficiency, reclaiming and monitoring.

- International meeting on ***“Scientific-Technological Cooperation and International Security in Euro-Asiatic relationships: the Conversion of Nuclear Systems and the Future of Russian Nuclear Cities. Dual Technologies and Economic Development”***. “Mario Toscano” Diplomatic Institute, Villa Madama, Rome, 13-14 December 1999. The output of the Forum has been a Project in parallel with the Russian-American Nuclear Cities Initiative in favour of the conversion of the Russian nuclear complex in the frame of the Common Strategy of the European Union on Russia, which has encountered the interest of the European Commission, UK, Germany and, of course, United States and the Russian MINATOM.

Activities in 2000:

- International forum on ***“Promoting International Scientific, Technological and Economic Cooperation in the Korean Peninsula: Enhancing Stability and International Dialogue”***, 1-2 June 2000, Istituto Diplomatico “Mario Toscano”, Rome, Italy, in collaboration and co-organization with Italian Ministry of Foreign Affairs. The output of the Forum has been a Project on *“EU Cooperation with the Democratic People’s Republic of Korea (DPRK)”*, addressed to the rehabilitation of energy systems in the DPRK, which is under consideration by the European Commission.
- International forum on ***“Can Advanced Energy Systems Cope with Energy Demands for Sustainable Development of Asia, OECD-Pacific and CIS?”*** with parallel exhibition, 5-8 July 2000, Villa Olmo, Como, Italy, in collaboration with UNESCO Venice Office, IAEA, WISE-Paris, EU-Institute for Transuranium Elements of Karlsruhe, Italian Ministry of Foreign Affairs, Italian Ministry of University and Scientific and Technological Research, ENEA, CEP-Moscow, Moscow Engineering Physics Institute and Volta Celebrations National Committee, as well as with the most prominent energy R&D centres Asia and Pacific. The output of the Forum have been: 1) the establishment of a *“Training Centre of Energy Efficiency and Clean Advanced Energy Technologies for Developing Countries ”* in favour of the CIS/Asian/Developing Countries, in collaboration with the International Atomic Energy Agency (IAEA), Italian Ministry of Foreign Affairs, UNESCO World Solar Programme, ENEA and with other international Organizations; 2) the preparation and the organization of an International Forum of the UNESCO School of Science for Peace on *“Energy Security in Latin America, Conversion of Biocultures and Sustainability”*.
- International Seminar on ***“Biosecurity: from Bioterrorism to Biocolonialism”***, 18-19 September 2000, Istituto Diplomatico “Mario Toscano, Villa Madama, Rome, Italy, with the support of the Unit of Policy Planning and Analysis of the Italian Ministry of Foreign Affairs and in collaboration with the International Center for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy and the General Direction for Cultural Promotion and Cooperation of the Italian Ministry of Foreign Affairs. The purpose of the Round Table has been to set up an open and critical discussion concerning the ongoing progress on the legally binding text for the strengthening of the Biological and Toxin Weapon Convention (BWC) established by the Ad Hoc Group, on the state of the biological weapons proliferation and on the assessment of the biological weapons threats. The Round Table has also considered the probable impact of advances in biosciences and

biotechnologies on illicit use of biological and toxin agents on one side, and on biosafety on the other.

- Working Group of the Pugwash Conferences on *"Intervention, Sovereignty and International Security"*, Council Room, Como Town Hall, 28-30 September 2000. The meeting, entirely supported by the Municipality of Como, has focused on eliciting non-western perspectives on issues relating to intervention and sovereignty in order to engage a discussion on the tensions existing between western liberal democracies and Russia, China, India, Pakistan and other countries in Asia and Africa, regarding principles and modalities of humanitarian intervention. The Study Group held its first meeting in Venice, Italy in December 1999, where it focused on US, NATO and other western country attitudes regarding the feasibility and necessity of international intervention to prevent widespread abuses of human rights.
- International Autumn School on *"Global Climate Changes and the Impact on Biosphere"*, 2-13 October 2000, University of Milano-Bicocca, Milano, Italy, in collaboration with UNESCO Venice Office, Italian Ministry of Foreign Affairs, Italian Ministry of Environment, Natural Historical Museum, Milan, Italy, University of Bicocca, Milan, Italy, University of Insubria, Como, Italy and other relevant national and international environmental Organizations. The School has met a large approval and a great success among the students, who have attended the courses in great number (130) and has launched a programme for similar initiatives open also to foreign students. The outputs have been: 1) a grant to establish a thesis on biodiversity; 2) the preparation and organization of an international Forum of the UNESCO School of Science for Peace on *"Diversity, Local Commons and Indigenous Cultures: Traditional and Modern Knowledge for Natural Resources Management and Preservation"*.

LNCV Forums have been preceded and followed by working groups who have drawn up documents and hypotheses of solution. Forums have always been supported by Como Municipality and the Lombardy Region.

SCIENTIFIC AND DIDACTIC ACTIVITY IN THE PERIOD 1996-2000

Scientific and research activities as well as those connected with the didactic activities of the Italian Universities and Research Centres in the years **1996-1999** have been:

- Assignment on behalf of Cariplo Foundation of *fifty-one* fellowships to professors from NIS countries for stages in Universities and Research Centres in Lombardy;
- Assignment on behalf of Foreign Affairs Ministry of *twenty-three* contracts to scientists and researchers of Russian Federation, in the context of the initiatives proposed by the Protocol of Scientific and Technological Italian-Russian Cooperation, for stages in several Universities in Italy;
- Assignment of *four* technological research contracts in enterprises in Lombardy Region to NIS technicians with the collaboration of Como and Milan Chambers of Commerce (PROMOS) and with the contribution of Lombardy Region;

- Assignment of contributions to young Russian researchers for the participation to International Conferences in Italy with the support of Cariplo Foundation and RFBR;
- Preparation of **“Trieste Declaration Conference”** (June 1998) on the peaceful use of biotechnology and on the X article of Biological Weapons Convention (BWC) and its publication on the international review “the CBW Convention Bulletin” (Sept. 1998);
- Beforehand arrangement, saving and innovating in the energetic field, of the European Project **“Energetic Security in the 3rd Millennium and Domestic Energetic Expenditure: EURECO Project”** which aims at a detailed analysis of expenditures connected with different final uses of electric energy, in particular in the domestic field. The EURECO Project contributes to projecting and evaluating the results of promoting the final efficient use of electric energy on behalf of the national and regional organizations in charge (Oct. 1998).
- (May 1999) Elaboration of the Trieste declaration on the peaceful use of biotechnology’s and BWC and preparation of the Project **“Biotechnology Information Sharing System”** which should supply, with the support of ICGEB, a data-base on real time biotechnology information exchange necessary for verifying the BWC;
- (April 1999) Set up of a study dealing with **“Science and Technology in the Foreign Office”** to define a new role of the Cultural Attaché aiming at effectively promoting the scientific and technological Italian system in the international background, taking into account that science and technology are an important part of a country’s foreign policy in the era of globalization. The study has been introduced at the meeting on “New Role of the Cultural Attaché for Promoting the Scientific and Technological Italian System Abroad”, Foreign Office, Rome, 24-26 May 1999;
- (May 1999) Start of an initiative called **“European Nuclear Cities Initiative (ENCI)”** which will be strictly linked with the similar Russian-American Project NCI in favour of the Russian Nuclear Cities. This initiative will fit into “the Common European Strategy towards Russia” approved in Cologne by the G8 Summit on June 4, 1999. The spirit of ENCI is to stimulate and help the conversion of the scientific and governmental staff in the Russian Nuclear Cities, at the same time creating new vacancies and promoting, in the civil sector, the use of “dual” technologies developed for defence. An international meeting has been dedicated to ENCI on Dec. 13-14, 1999 at the Italian Foreign Office.
- Participation to the drawing up, on behalf of UNESCO Italian National Commission and the Italian Foreign Office of the **“Draft Science Agenda – Framework for Action”** and of the **“Draft Declaration on Science and the Use of Scientific Knowledge”** which represent the final documents of the World-wide Conference on Science **“Science for the Twenty-first Century: a New Commitment”**, Budapest, 26 June-1 July 1999. Both the documents stress the importance of “Science for Peace” to promote a universal dialogue among the people and for the scientific and technological solution of some global problems (environment and security) at the starting of the third millennium;
- Preparation of a European Community TACIS project for the decommissioning of the nuclear powered submarines in the former Soviet Union in collaboration with ENEA in Bologna, MINATOM and IBRAE and NIKIET Institutes in the Russian Federation, called **“The Key Study on Problems of Decommissioning and Disposition of Propulsion Nuclear Power Facilities of the Russian Navy”** (July 1999). This study mainly aims at

the analysis and development of a general methodology for reducing the nuclear waste produced by the dismantling of the Russian Nuclear Propulsion Submarines;

- Organization of a case study “**1999 Drought and its Impact: Israel, Jordan and the Palestinian National Authority**” (Aug. 1999), supported by the EU-JRC at Ispra, with the purpose of detecting the availability of the water resources and the water request in the Mediterranean area during the 1999 drought. The study also aims at identifying a series of possible solutions to minimize the water deficit and a series of measures acceptable by Israel, Jordan and the Palestinian Territories. The study covers the period Sept.-Dec. And will be presented at the Ispra Centre and in Rome at the Diplomatic Institute of the Foreign Office.
- Preparation of a Pilot Project dealing with military conversion issues connected with “**International Security and Demining**” with the participation of Russian and American scientists from Nuclear National Laboratories (Arzamas-16 and Chelyabinsk-70 for Russia and Argonne National Laboratories for US) in collaboration with Fondazione Opera Campana dei Caduti di Rovereto, Trento University and Trento Institute of Culture (ITC) and with the support of the Foundation Cassa di Risparmio di Trento e Rovereto.(This project is still under elaboration).
- Preparation of a Training Project on “**Establishment of an Energy Efficiency Centre**” open to representatives of Institutions, Agencies and corporations of the NIS Countries active in the energy sector, with lecturers provided by the European Community and enterprises in the field. The Project will be realized in collaboration with the Russian ecological NGO “Vernadski Foundation”(still under elaboration).

In **2000** the Landau Network-Centro Volta has realized:

- Assignment of *fourteen* medium-term fellowships for NIS Countries in Universities and Research Centers in Lombardy and Italy on behalf of the Cariplo Foundation;
- Assignment of *twelve* contracts to scientists and researchers of the Russian Federation, in Italian Universities and Research Centers in the frame of the initiatives promoted by the Protocol of Scientific and Technological Italian-Russian Cooperation on behalf of the Italian Ministry of Foreign Affairs;
- Assignment of grants to young Russian researchers for participating to International Conferences in Italy with the support of the Cariplo Foundation and the Russian Foundation for Basic Research (RFBR);
- Assignment of *six* technological research contracts, supported by Cariplo Foundation and Lombardy Region, to Ukrainian researchers and technicians, to be carried out at medium and small-sized enterprises in Lombardy Region;
- Prosecution of the initiative “**European Nuclear Cities Initiative (ENCI)**” strictly linked with the similar Russian-American Project NCI in favour of the Russian Nuclear Cities. This initiative fits into “the Common European Strategy towards Russia” approved in Cologne by the G8 Summit on June 4, 1999. The spirit of ENCI is to stimulate and help the conversion of the scientific and governmental staff in the Russian Nuclear Cities, at the same time creating new vacancies and promoting, in the civil sector, the use of “dual” technologies developed for defence. An international meeting has been dedicated to ENCI

on Dec. 13-14, 1999 at the Italian Foreign Office. The initiative is presently under consideration of CONOP (Committee of Nonproliferation) and of the European Commission for financial support;

- Preliminary contacts for the establishment of a ***“Training Centre of Energy Efficiency and Clean Advanced Energy Technologies for Developing Countries”*** in favour of the CIS/Asian/Developing Countries, in collaboration with the International Atomic Energy Agency (IAEA), Italian Ministry of Foreign Affairs, UNESCO World Solar Programme, ENEA and with other international Organizations;
- Realization of a Project on ***“EU Cooperation with the Democratic People’s Republic of Korea (DPRK)”***, addressed to the rehabilitation of energy systems in the DPRK, which is under consideration by the European Commission.

CONGRESS ACTIVITIES IN THE YEAR 2001

- Organization of the International Forum on ***“The Missile Threat and Plans for Ballistic Missiles Defense: Technology, Strategic Stability and Impact on Global Security”***, Istituto Diplomatico “Mario Toscano” and Parliament, Library Room “Il Refettorio”, Rome, Italy, 18-19 January 2001, in collaboration with the Italian Ministry of Foreign Affairs, COPIT, Italian Senate Foreign Committee, Unione Scienziati per il Disarmo (USPID). The main aim of the Rome Forum was to provide an opportunity for an informal discussion and a critical analysis among international experts from geopolitical, security and scientific and technological fields associated with missile and anti-missile research, development and assessment. In particular, the Forum discussed the following issues: if the answer to the spread of ballistic missiles is not given by the new BMD-NMD plans, then what will be the right answer? A search for new defensive technologies? A stricter form of international control of the spread of ballistic missiles? A different type of cooperation and accommodation with the countries which actively export ballistic missiles or which aim at building longer range ballistic missiles? Or a combination of all of the above answers? These and related questions were discussed in the meeting and a particular emphasis was given to the impact that US NMD might have on the stability of the international strategic environment and on the NATO cohesion and concept of deterrence.
- Organization of the Forum of the UNESCO International School of Science for Peace on: ***“Energy and Environmental Opportunities in the Russian State Research Centres and Nuclear Cities”***, Municipality of Como, Como, Italy, 9-10 April 2001, in collaboration with Russian American Nuclear Security Advisory Council, (RANSAC), Washington, USA, Ente per le Nuove Tecnologie, l’Energia e l’Ambiente (ENEA), Italy, Italian Ministry of Foreign Affairs, RFNC-VNIIEF, Sarov, Russia, RFNC-VNIITF, Snezhinsk, Russia and USPID. Aim of the Forum will be to review the status of implementation of energy and environmental projects in the relevant technical and policy area of conversion of the Russian Nuclear Cities, as well as to enhance technological transfer of advanced dual-use technologies to cope with the demands of western/European entities with these cities and in general in the Russian State Research Centres.
- Organization of the International Topical Workshop on ***“Proliferation –Resistance in Innovative Reactor and Fuel Cycles”*** in the frame of the Training Centre on R&D

Progress in Energy Efficiency and Clean Advanced Energy Technologies for the Developing Countries, Municipality of Como, Italy, July 2-6, 2001. The Workshop has been organized with International Atomic Energy Agency (IAEA), in collaboration with Ente per le Nuove Tecnologie, l'Energia e l'Ambiente (ENEA) and with the Italian Ministry of Foreign Affairs. The Workshop was mainly addressed to analyze safety and non-proliferation issues of new innovative nuclear reactors and fuel cycles.

- Organization of a Workshop of the Pugwash Conferences on Science and World Affairs on “***Nuclear Stability and Missile Defenses***”, Como, Italy, September 6-9, 2001, in collaboration and with the support of the Municipality of Como. The Workshop is mainly dedicated at analysing a new strategic international framework of offensive and defensive systems, trying to develop engagements, cooperative and confidence building measures towards the “States of concern”. Indeed it is expected a delegation of Iranian and North Korean experts.
- Organization of the IX International Castiglioncello Conference on “***Missiles, Missile Defenses, Proliferation of WMD in the New International Scenario***”, Castiglioncello, Livorno, Italy, September 20-23, 2001, in collaboration with Union of Scientists for Disarmament (USPID) and with the support of the Municipality of Rosignano Marittimo. The Castiglioncello Conference will start from the spin offs of the Pugwash Conferences Workshop elaborating in particular the case of Ballistic Missile Defense (BMD) systems and ABM Treaty, and will give lecture of a case study on BMD/ABM, elaborated by LNCV with the support of the Italian Ministry of Foreign Affairs.
- Organization of the ***First Meeting of the International Working Group (IWG) for ENCI***, Como, Italy, November 9-10, 2001. During the meeting a Chart of IWG will be defined and adopted by the interested parties. The meeting will elaborate an agenda of future actions of IWG.
- Organization of the EU Workshop on “***New Chemical Materials Research in Russia and CIS Countries***”, FAST-Milano and Como, Italy, November 12-13, 2001, co-organized with the International Science and Technology Centre (ISTC) and in collaboration with the Italian Ministry of Foreign Affairs, Federazione delle Associazioni Scientifiche e Tecniche (FAST), Federchimica, Federlegno-Arredo, Associazione Italiana di Metallurgia, Lombardia Region, Gruppo Università e Impresa di Univercomo and Unione Industriali of Como. The workshop is part of the ENCI project to favour innovative technological transfer between CIS and western countries.
- Organization of the international Symposium and Round Table on “***The Oil and Gas Routes: Geopolitics of Pipelines, Stability and International Security***”, Como, Italy, December 10-11, 2001, in collaboration with Italian Ministry of Foreign Affairs, ACSM of Como, Lombardia Region, *Limes*, Italian Review of Geopolitics, *Heartland*, Eurasian Review of Geopolitics and other relevant national and international Organizations. The Forum wants to explore the correlation between national security concern, regional security dynamics, energy security (oil and gas) and interregional frameworks among the States of Central Eurasia and Caspian Region. Particular emphasis will be given to the role of the major powers in the region (i.e. those countries bordering the region and with substantial interests in it, namely Russia, Iran, China as well as the US, whose status as a global power links it to developments there).

SCIENTIFIC AND DIDACTIC ACTIVITY IN THE YEAR 2001

- The establishment of working groups/round tables/scientific committees charged for the preparation of the agenda of the international events described above and of their working draft documents;
- Preparation of *analytic scientific reports* for national and international Institutions, aimed also at drawing projects for submission to the European Commission;
- The promotion of public awareness through the publication and diffusion of the volumes of the UNESCO Series Science for Peace and the establishment and management of the LNCV Website on Internet;
- The assignment of temporary fellowships and research contracts to worldwide known scientists and professors from CIS countries;
- Continuation and further development of the ENCI project in the frame of the EU program on disarmament and non-proliferation activities in the Russian Federation;
- Establishment of a research project on the creation of a "*Korean Peninsula Inter-Universities Development Organization (KIUDO)*" directed to provide Internet training packages and to connect to Internet Educational structures, Universities, health-care organizations and NGOs (mainly working on environmental issues) inside and outside the Korean Peninsula;
- Organization of didactic programme, with the contribution of the Landau Network-Centro Volta experts, on "*Culture for Peace*" addressed to young students. In particular this didactic programme has been focused on global issues concerning disarmament and international security, environmental problems such as energy/water security and sustainable development.

PUBLICATIONS

Since 1998 LNCV has prepared a series of monographs called "*The Reports*" - documents elaborated by the experts of the Scientific Committee of the School and of LNCV- whose purpose is to illustrate the scientific and technological aspects of the global problems brought about after the end of the Cold War and addressed to national Institutions, Universities and Research Communities. They are:

- "*The Reports*", Volume 1, "*Energetic Policies and Strategies for the Future: Scientific, Technological and Economical Aspects*", September 1998 (abstract in the "La Termotecnica" Magazine, December 1998);
- "*The Reports*", Volume 2, "*Science and Research in the Russian Federation: Present Situation*", October 1998;
- "*The Reports*", Volume 3, "*The Crisis of the Russian Nuclear System and of its Related Fields: What can one do ?*", November 1998;
- "*The Reports*", Volume 4, "*Radioactive Contamination of the Oceans: the Problem Dismissing the Former Soviet Union Nuclear Submarines*", January 1999;
- "*The Reports*", Volume 5, "*Japan and Nuclear Asia: Plutonium and Proliferation Risks*", April 1999;
- "*The Reports*", Volume 6, "*NATO and American Nuclear Arms in Europe*", July 1999;

- “*The Report*”, Volume 7, “*Water security in the third Millennium: the Mediterranean Countries towards a Common Management*”, September 2000;
- “*The Report*”, Volume 8, “*Global Climate Changes and Impact on Biosphere*”, November 2000.

LNCV and the UNESCO International School “Science for Peace”, supported by the UNESCO Venice Office and the General Management of Cultural Affairs of the Italian Ministry of Foreign Affairs, has elaborated since 1996 a number of volumes of a special UNESCO series “**Science for Peace**”, which collects contributions and results of the meetings and the documents of the working groups:

- Volume No. 1 – *Proceedings of the International Meeting on Military Conversion and Science: Utilization/Disposal of the Excess Weapon Plutonium: Scientific, Technological and Social-Economic Aspects*, Como, Italy
Editors: V. Kouzminov, M. Martellini and R. Santesso
Published in December 1996 – 469 Pages
- Volume No. 2 – *Forum “Science for Peace” – Session of the Genoa Forum of UNESCO on Science and Society “Science Ethics”- Workshop “Science, Technology and National Systems of Innovation”*, Como, Italy
Editors: V. Kouzminov, M. Martellini and R. Santesso
Published in March 1997 – 181 Pages
- Volume No. 3 – *International Symposia on Science for Peace (1st Symposium 11 December 1995; 2nd Symposium 20-23 January 1997)*, Jerusalem, Israel
Editors: Y. Becker, V. Kouzminov and R. Santesso
Published in November 1997 – 306 Pages
- Volume No. 4 – *Illegal Nuclear Traffic: Risks, Safeguards and Countermeasures*, Como, Italy
Editors: V. Kouzminov, M. Martellini and R. Santesso
Published in April 1998 – 159 Pages
- Volume No. 5 – *Nuclear and Biological Decommissioning: Management of Global Security Threats*, Como, Italy
Editors: G. Aslanian, V. Kouzminov, M. Martellini and R. Santesso
Published in June 1998 – 284 Pages
- Volume No. 6 – *Inauguration of the UNESCO School of Science for Peace: First Forum of the International Scientific Panel on the Possible Consequences of the Misuse of Biological Sciences*, Como, Italy
Editors: Y. Becker, A. Falaschi, V. Kouzminov, M. Martellini and R. Santesso
Published in March 1997 – 181 Pages
- Volume No. 7 – *Energy Security in the Third Millennium: Scientific and Technological Issues*, Como, Italy
Editors: G. Aslanian, U. Farinelli, V. Kouzminov, M. Martellini and R. Santesso
Published in December 1999 - 720 pages

- Volume No. 8 – *Nuclear Disarmament, Safe Disposal of Nuclear Materials or New Weapons Development? Where are the National Laboratories Going?*, Como, Italy
Editors: P. Cotta-Ramusino, G. Gherardi, A. Lantieri, V. Kouzminov, M. Martellini and R. Santesso
Published in December 1999 - 603 pages
- Volume No. 9 - *Water Security in the Third Millennium: Mediterranean Countries towards a Regional Vision*, Como, Italy
Editors: V. Kouzminov, M. Martellini and R. Santesso
Published in March 2001 – 499 pages
- Volume No. 10 - *Nuclearization of South Asia: Problems and Solutions*, Como, Italy
Editors: P. Cotta-Ramusino, V. Kouzminov, M. Martellini and R. Santesso
Published in June 2001 – 388 pages

Further contributions and results of international meetings and conferences have been published in the following volumes:

- *“Promoting International Scientific, Technological and Economic Cooperation in the Korean Peninsula: Enhancing Stability and International Dialogue”* Como, Italy
Editors: P. Cotta Ramusino and M. Martellini
Published in June 2000 – 269 pages
- *“Biosecurity and Bioterrorism”*, Como, Italy
Editor: M. Martellini
Published in September 2000 – 231 pages
- *“Missile Threats and Ballistic Missile Defence: Technology, Strategic Stability and Impact on Global Security”*, Como, Italy
Editors: P. Cotta Ramusino and M. Martellini
Published in January 2001 – 275 pages

LNCV is also a scientific cooperation centre with the Former Soviet Union and in particular with the Russian Federation. For this reason and through INTAS it gets a European support for organizing international conferences of fundamental physics. The proceedings of the conferences that have already taken place have been collected in the following publications:

- *Non-Perturbative Methods in Statistical Mechanics and Non-linear Dynamics: a Russian-Italian Co-operation*
Int. J. Mod. Phys. B, Vol. 10, N. 18 and 19, 30 Aug., 1996
Editors: G. Casati, A. Gamba, M. Martellini, M. Rasetti
- *Advances in Quantum Field Theory and Statistical Mechanics: Second Russian-Italian Cooperation*
Int. J. Mod. Phys. B, Vol. 11, N. 26 and 27, 30 Oct., 1997
Editors: G. Casati, A. Gamba, M. Martellini, M. Rasetti

Other publications in the field of Scientific and Technological International Security and Geopolitics are:

- P. Cotta-Ramusino, A. Gamba, M. Martellini, *Nuclear Warheads: What to do? Russia and the Cold War Legacy*
CUEN Publishing Company, Naples 1996
- M. Martellini, *The Atomic Risk and the Western Responsibilities* from “*Russia in Pieces*”, Limes, Vol. No. 4, 1998
- P. Cotta-Ramusino, M. Martellini, *The Virtual Bomb: What is the need of Japanese Plutonium?* from “*Asia Maior*”, Limes Review, Vol. No. 1, 1999
- P. Cotta Ramusino and M. Martellini, *The Atomic Bomb at Home: what do we need the Bombs for?* from “*What do we need NATO for?*”, Limes Review, Volume 4, 1999
- P. Cotta-Ramusino, A. Lantieri, K. Luongo and M. Martellini, *Helping Russia Downsizing Nuclear Cities*, in “*Limes in più*”, Limes, Volume No. 2, 2000
- P. Cotta-Ramusino and M. Martellini, *A European Project to Stop Illicit Nuclear Trafficking*, in “*Limes in più*”, Limes, Volume No. 2, 2000
- P. Cotta Ramusino and M. Martellini, *The European Policy Towards Korea*, from “*A New Silk Road?*”, Eurasian Limes-Heartland, Volume 1, 2000
- M. Canepa, *All begins from Water*, Limes, Volume 1, 2001
- R. Cossa and M. Martellini, *Energizing Asia: The Great Challenge for the Next Decades*, in “*China/America Love and Fear*”, Eurasian Limes-Heartland, Volume No. 2, 2001;
- P. Cotta-Ramusino and M. Martellini, *Indiscriminate Bombing is Not Winning*, in Special Issues of Limes, Volume No. 4, 2001

Moreover the following *Case Studies* have been realized on behalf of the Foreign Office:

- LNCV Secretariat, “*Nov. 1998 Iraqi Crisis – Analysis*”, 13 Nov., 1998
- LNCV Secretariat, “*NATO Nuclear Policy: Some Reports and Analysis*”, 20 Jan., 1999
- LNCV Secretariat, “*Kosovo Crisis - the Preamble: Strategy of out of Area NATO Missions and Broadening to the Baltic Countries*”, 1 April, 1999
- LNCV Secretariat, “*Inhuman NATO Arms in Yugoslavia and Possible Violations of the Chemical Weapons Convention (CWP) and of the Certain Conventional Weapons Convention (CCWC)*”, 19 May, 1999 (This study has been used for a parliamentary question in the 662nd meeting of the Republic Senate on July 27, 1999)
- LNCN Secretariat, “*Sustainable Energy Strategy for Asia. Role of Advanced Technologies*”, October 10, 2000
- LNCV Secretariat, “*A Quick Note on India-Pakistan Nuclear Confrontation*”, April 26, 2001
- LNCV Secretariat, “*Deterrence, ABM Treaty and the New Strategic Environment*”, July 11, 2001
- LNCV Secretariat, “*Terrorism and Consequences after September 11, 2001*”, October-December 2001

Besides, all the LNCV activities of relevant national and international interest have been deeply considered by the mass-media, as one can detect from the press survey.

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LNCV has no permanent staff but only collaborators on subject bases. LNCV is run by the Executive Council of the Centre for Scientific Culture “A. Volta”, the legal representative of which is Dr. Antonio Spallino, President of the Executive Council.

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