

**EXECUTIVE PROGRAMME
OF SCIENTIFIC AND TECHNOLOGICAL CO-OPERATION
BETWEEN
THE REPUBLIC OF POLAND
AND
THE ITALIAN REPUBLIC
2007-2009**

*XIX Session of Polish - Italian Joint Commission
Warsaw, 30 March , 2007*

Based on art. 4 of the Agreement on Scientific and Technological Co-operation between the People's Republic of Poland and the Italian Republic, which was signed in Warsaw on 27th November 1960, and came into force on 31st July 1961, the XIX Session of the Italian – Polish Joint Commission was held in Warsaw on March the 30th 2007 to examine the present state, further develop the scientific and technological co-operation between the two Countries and define the new Executive Program for the years 2007-2009.

The Polish delegation was led by Mrs. Iwona Jędrzejczak, Director of the Department of International Cooperation, Ministry of Science and Higher Education.

The Italian delegation was led by Her Excellency Anna Blefari Melazzi, Ambassador of Italian Republic to Republic of Poland.

The members of the two delegations are given in **Annex 1**.

The following agenda was adopted:

1. Present state of scientific and technological co-operation
2. Selection and approval of the joint projects for the years 2007-2009
3. Financial conditions of the cooperation
4. Closing Session
5. Recommendation for future actions

The institutions in charge of the co-ordination of the present Programme are:

For the Polish side: Ministry of Science and Higher Education

For the Italian side: Ministry of Foreign Affairs, General Directorate for Cultural Promotion and Co-operation

1. Present state of scientific and technological co-operation

The two parties have agreed to recognise the growing importance of science and technology for the economic, social and cultural development of the two Countries. The parties are pleased to underline the favourable trend in scientific relations between the two countries, their satisfaction with the Agreements and Protocols for the scientific and technological cooperation and the outcomes of the collaboration in the period 2004-2006.

Both sides place particular emphasis on the role of international co-operation for the further development of the S&T system in the two countries. They also agreed to pay serious attention to extending the co-operation in international and European multilateral R&D programmes such as EU 7th Framework Programme, COST etc.

2. Selection and approval of the joint projects for the years 2007-2009

In the period September 30th October-15th December 2006 a joint call for proposals has been launched to collect bilateral projects in the following priority areas:

- Astronomy
- Space Technology
- Physics
- Chemistry
- New Technologies
- Agriculture
- Energy and Environment
- Food technology and Biotechnology
- Medicine and Health
- Enhancement of cultural heritage through the use of new technologies

A total number of 76 proposals have been received by the Polish side. A total number of 67 proposals have been received by the Italian side. However, only 64 project proposals were received in both Countries. The two Parties, in deciding which projects should be given priority financial support, have agreed on the following criteria:

Qualifications and experience of research teams
Methodology, approach, strategy, structure, and documentation
Sufficiency of existing and proposed research infrastructure
Level of originality and innovation
Social and developmental added value for Italy and Poland
Purpose of cooperation among the groups
Exploitation of results
Dissemination of results

In compliance with the above mentioned criteria, 26 projects have been selected to be granted financial support for the exchange of researchers. The financing of the selected projects will be based on the national regulations being in force in both Countries. The list of the selected projects is given in **Annex 2**.

3. Financial conditions of the cooperation

The administrative and financial provisions for the implementation of the Programme are given in **Annex 3**.

In addition to the bilateral projects listed in **Annex 2**, the Italian party will consider granting a unilateral financial contribution to the significant bilateral research projects listed in **Annex 4**.

This financial contribution are intended to partly cover the research activities of the projects. This financial support will be granted to the Italian partners, upon evaluation of the applications to be submitted according to indications that will be given by the Italian side.

4. Closing Session

Place and date of the next meeting

The two parties have agreed that, in order to define the Programme of co-operation for the years 2010-2012, the next session of the Joint Commission will be held in Rome. Details about the date will be agreed upon through diplomatic channels.

5. Recommendation for future actions

The Parties stressed the importance to focus in the future more on the results and the outcomes of the joint projects.

All initiatives foreseen in this Programme will be carried out within the limits of the budgets and according to the rules prevailing in each Country.

Any amendment to the text of this Programme has to be authorised by the competent Ministries and carried out through diplomatic channels.

The present Programme for the years 2007-2009 will remain valid until the signature of the next one, but no longer than one year after its expiration.

The present document, including the Annexes 1,2,3,4, which are an integral part of it, has been drawn up in Warsaw, on March the 30th 2007, in two originals in English language.

For the Polish Delegation

For the Italian Delegation

Mrs. Iwona Jędrzejczak,

**Her Excellency
Anna Blefari-Melazzi**

Director of the Department of International
Cooperation, Ministry of Science and
Higher Education

Ambassador of Italian Republic to
the Republic of Poland

- Annex 1: Members of the two delegations**
- Annex 2: List of the selected projects**
- Annex 3: Administrative and financial provisions**
- Annex 4: Significant bilateral projects.**

Annex 1: Members of the delegations

Head of the Polish delegation

Mrs. Iwona Jędrzejczak

Director of the Department of International Cooperation, Ministry of Science and Higher Education

Members

Mrs. Hania Bouacid

Senior Management Officer of Department of International Cooperation, Ministry of Science and Higher Education

Head of the Italian delegation

Her Excellency Anna Blefari Melazzi

Ambassador of the Italian Republic to the Republic of Poland.

Members

Mrs. Laura Ranalli

First Secretary- Italian Embassy

Mr. Massimo Mazzini

Scientific Attache' - Italian Embassy

Annex 2: List of the Selected Projects

Legenda:

As- Astronomy

Ag- Agriculture

E Am- Environment and Energy

FI- Physics

ME- Medical Sciences

NT- New Materials and Technologies

BL –Library’s Heritage Science

CH- Chemistry

FN- Nuclear Physics

TS- Space Technologies

| N. | Sect | Title | Italian Coordinator | Polish Coordinator |
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| 1 | FI | Broadband Dielectric Spectroscopy as a monitoring technique for high pressure | Pierangelo Rolla Department of Physics “E. Fermi”, Università degli Studi di Pisa | Marian Paluch Institute of Physics, Silesian University, Katowice |
| 2 | FI | Study and Application of Laserr produced Plasma | Batani Dimitri Università di Milano Bicocca. Physics Department | Wolowski Jerzy Institute of Plasma Physics and Laser Microfusion, Warsaw |
| 3 | NT | Development of full density P/M alloys with higher mechanical properties and performances | ROSSO Mario Politecnico di Torino | Karwan-Baczewska Joanna Department of Non- Ferrous Metals Metallurgy, Akademia Górniczno-Hutnicza, |
| 4 | NT | Automatic system for 3D evaluation of the cutting edge geometry with optical metho | Negri Martino IVALSA-CNR, San Michele all'Adige | Beer Piotr Agricultural University of Poznam |
| 5 | FI | Metal/oxide epitaxial nanostructures for magnetic and catalytic applications | Luches, Paola National research centre on nanoStructures and bioSystems at Surfaces INFM-CNR S3, Modena | Korecki, Jozef AGH University of Science and Technology, Faculty of Phisic and Applied Computer Science |
| 6 | NT | Micro and sub-micro electro-optical devices based on liquid crystals for photonic integrated circuits | d’Alessandro Antonio Università degli Studi di Roma "La Sapienza" – Dipartimento di Ingegneria Elettronica | Roman Dąbrowski Military University of Technology |
| 7 | FI | New techniques for detecting and identifying charged products in nuclear collisions | Bruno Mauro Dipartimento di Fisica, Universita’ di Bologna | Tomasz Kozik Institute of Physics, Jagiellonian University, Krakow |
| 8 | CH | Studies of selected liquid crystals by complementary spectroscopic methods | Geppi, Marco Dipartimento di Chimica e Chimica Industriale, Università di Pisa | Urban Stanislaw Instytut Fizyki, Uniwersytet Jagiellonski, Wydział Fizyki, Astronomii i Informatyki Stosowanej |
| 9 | E Am | Limiting emission of noise in aero-acoustics – new algorithms for analysis and optimisation | Bassi, Francesco University of Bergamo | Rokicki, Jacek Institute of Aeronautics and Applied Mechanics, Dep. of Aerodynamics |

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| 10 | ME | A search for putative mechanisms of neuroprotective effects of adenosine A2A antagonists in Parkinson's disease | Morelli Micaela Dept. Toxicology, University of Cagliari | Wardas Jadwiga Institute of Pharmacology, Polish Academy of Sciences, Krakow |
| 11 | NT | Optimal learning systems – efficient software tools and applications | Fortuna Luigi Università degli Studi di Catania | Jankowski Stanisław Warsaw University of Technology |
| 12 | NT | Magnetic Studies Of Complex Oxide Materials For New Technologies | Mezzetti Enrica Dept. of Physics – Politecnico di Torino | Wisniewski Andrzej Institute of Physics – Polish Academy of Sciences |
| 13 | NT | Development of Procedure for building structure monitoring by Acoustic Emission | Proverbio Edoardo University fo Messina – Dept. Industrial Chemistry and Materials Engineering | Gołaski, Leszek Kielce University of Technology |
| 14 | CH | Study of antioxidant activity of minor fruits belonging to Italian and Polish flora | Braca Alessandra Dipartimento di Chimica Bioorganica e Biofarmacia- Università di Pisa | Oleszek Wieslaw Department of Biochemistry, Institute of Soil Science and Plant Cultivation, Pulawy |
| 15 | ME | Study of Interaction between Dendrimers and Prion or Alzheimer's Peptides | Ottaviani M. Francesca University of Urbino | Klajnert Barbara University of Lodz |
| 16 | TS | Satellite and in situ investigation of subsidence and related ground instability phenomena in the Wieliczka salt mine area | Wasowski Janusz CNR-Istituto di Ricerca per la Protezione Idrogeologica | Graniczny Marek Polish Geological Institute (PGI), Warsaw assisted by AGH, Kraków |
| 17 | CH | Separation platform for the proteome analysis based on chemometrics data analysis | Massolini Gabriella Dipartimento di Chimica Farmaceutica (Università di Pavia) | Bączek Tomasz Medical University of Gdansk |
| 18 | FI | Optimization of the Structural, Optical and Electrical Properties of Nanostructured Iii-V and Iv-Iv Semiconductors | Frigeri Cesare Cnr-Imem Institute, Parma | Wosinski Tadeusz Institute of Physics of the Polish Academy of Sciences |
| 19 | FI | Novel nanomaterials based on conducting glasses for energy conversion/storage devices | Mustarelli Piercarlo Department of Physical Chemistry “M. Rolla”, University of Pavia | Garbarczyk Jerzy Faculty of Physics, Warsaw University of Technology |
| 20 | E Am | Tri-generation system based on multi-kW Solid Oxide Fuel Cell Module for in-house Applications. | Lunghi Piero University of Perugia | MILEWSKI Jaroslaw Warsaw University of Technology, Institute of Heat Engineering |
| 21 | ME | Investigation of hardware and signal processing requirements for ECG analysis of Miocardial Infarction Prediction | Lay-Ekuakille Aimè University of Lecce, Department of Innovation Engeneering | Turcza Pawel AGH University of Science and Technology, Department of Instrumentation and Measurements |
| 22 | ME | Characterization of the changes in proteins glycosylation profile in melanoma progression | Angela Amoresano Università di Napoli “Federico II” | Lityńska Anna Department of Biochemistry of Glycoconjugates, |

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| | | | | Jagiellonian University, Kraków |
| 23 | E Am | High performance graded/multilayered coatings for energy systems, automotive and aerospace industry | Ferraris Monica Politecnico di Torino | Czyrska-Filemonowicz Aleksandra AGH University of Science and Technology, Krakow |
| 24 | FI | Dosimetry in water phantom with planar termoluminescent detector | Bucciolini Marta University of Florence - Department of Clinical Physiopathology | Olko Pawel Institute of Nuclear Physics (IFJ) |
| 25 | CH | Novel conducting polythiophene polymers for electroanalytical and optoelectronic applications | Mussini Patrizia Place of implementation: University of Milano – Dept. Physical Chemistry and Electrochemistry | Kutner Włodzimierz Polish Academy of Sciences - Institute of Physical Chemistry |
| 26 | ME | Clinical and experimental studies to assess the effectiveness and improvement of the treatment of primary and metastatic tumors of liver using thermalablation | Gaspari Achille Università di Roma Tor Vergata | Jan Kulig Jagiellonian University Krakow |

Annex 3: Financial support for the approved projects

The projects to be financed within the present Programme are listed in the Annex 2.

Financial support means that the implementing institutions responsible for the management of the co-operation in science and technology between the two countries will cover the costs of the exchange of scientists, i.e. travel and accommodation costs in accordance with the following mutually agreed provisions:

The travel costs to and from the receiving country shall be covered by the sending side.

The receiving side shall cover the costs of accommodation and the costs of living.

STAY OF POLISH RESEARCHERS IN ITALY

The Italian Party will finance, yearly, for each project listed in Annex 2, 1 short term stay (up to 10 days) or 1 long term stay (30 days).

The application for both long and short term research stays shall be made exclusively through Italian diplomatic Representations in Poland. These applications shall be received no less than two months before beginning of the research visit by the Office V of the General Directorate for Cultural Promotion and Co-operation of the Italian Ministry of Foreign Affairs.

The application concerning the research stay period shall be completed with the following documents, in two copies:

- 1) Letter of engagement of the host Institution;
- 2) Application Form undersigned by the Polish researcher comprehensive of personal and professional applicant data, title and approved list number of the research project, date and length of the visit, list of the institutes to visit (2 original application forms); the Application Form is available at the internet address: www.esteri.it under **Foreign Policy (Policy Areas > Cultural Policy > Activities > Scientific Technical Cooperation)** Attività Scientifiche, Mobilità dei ricercatori stranieri.
- 3) Detailed work Programme;
- 4) Curriculum Vitae of the researcher;
- 5) Letter of appointment by the head of the project (if the head of the project is not travelling in person).

The above mentioned application shall be completed with a declaration, in which the researcher commits himself/herself:

- to respect the indicated period of visit;
- not to receive retributions by other International Organisations or Corporations during his/her stay;
- not to change work Programme, destination and not to depart from Italy without authorisation;
- to present, after 30 days of completing the research visit, a final report on the activities carried out;
- to transmit to the INA Assitalia, Lungotevere Flaminio 34, 00196 Roma, notice of any accidents and/or illness which may have occurred in Italy for insurance purpose.

Cancellations, unless seriously documented, shall prevent the hosting Party from accepting further applications for related missions.

In order to cover the necessary insurance cost for the Polish researchers during their stay in Italy, each researcher is requested to send to the Italian Party (General Directorate for Cultural Promotion and Co-operation - Office V, Italian Ministry of Foreign Affairs. Fax n.: --3906 36917121) a fax on the first day of arrival at the Italian Scientific Institution to notify his/her

presence in Italy.

The Italian Party shall provide 1300 Euro per month for long term stays (30 days) and 93 Euro per day for short term stays (up to 10 days).

The above amounts shall be paid to the Polish researchers entirely at their arrival in Italy.

Polish researchers can receive the payments at the Italian Ministry of Foreign Affairs or at the nearest Provincial Treasury (Local Branch of the Banca d'Italia). The preferred place of payment will be indicated in the Application Form.

The Italian party shall provide to Polish researchers visiting Italy a medical insurance coverage against accidents and illness, when not covered on the basis of European legislation.

STAY OF ITALIAN RESEARCHERS IN POLAND

According to the Polish Law "Decree of 11th November 2001 on criteria and the manner of contribution and accounting of financial means in the state budget for scientific research" the financial support from the Polish partner institute, which is necessary for the execution of the project activities, as described in the Polish application form, will come from the fund covering the statutory activities of the Polish institutes, including international scientific and technological cooperation resulting from intergovernmental agreements and executive programmes.

The Polish partner institute will provide Italian scientists:

- for short – term visits 330 PLN (per diem + accomodation)
- for long term visits 3500 PLN monthly

The Poland party shall provide to Italian researchers visiting Poland a medical insurance coverage against accidents and illness, when not covered on the basis of European legislation.

JOURNEY OF ITALIAN RESEARCHERS TRAVELLING TO POLAND

Italian researchers willing to travel to Poland for stays at the local Institutions, must present, two months in advance the departure date, a formal application to the Italian Ministry of Foreign Affairs, Direzione Generale per la Promozione e la Cooperazione Culturale, Ufficio V, Piazzale della Farnesina 1, 00194 – Roma.

The Italian party will pay travelling expenses in economic class only.

The application is to be completed with:

Name and address of the hosting Institution;

Foreseen dates of departure and arrival;

Title of the research project;

Letter of invitation by the hosting Institution;

Declaration of Italian researcher with the engagement: to pay the due penalties in case of travel cancellation, to deliver travel documents (air tickets and boarding cards) within 15 days after returning and to write final report on the activities carried out within 30 days after return;

Declaration of the project's co-ordinator concerning the participation of the researcher to the project (only in case the researcher is not the project's responsible).

All the described rules are available at the internet address: www.esteri.it under [Foreign Policy \(Policy Areas > Cultural Policy > Activities > Scientific Technical Cooperation\)](#)

JOURNEY OF POLISH RESEARCHERS TRAVELLING TO ITALY

The Polish partner institute will cover the roundtrip travel cost between the two countries (location of the receiving institution).

Annex 4: Significant bilateral projects

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| E Am | Integration Of: Corex Metallurgical Process, Co2 Removal, Air Separation Unit And A Combined Heat And Power Plant | Manfrida, Giampaolo Dipartimento Di Energetica “Sergio Stecco”, Università Degli Studi Di Firenze | Andrzej Ziebig Silesian University Of Technology, Institute Of Thermal Technology, Gliwice |
| ME | NEUROMATH: Advanced Methods For The Estimation Of Human Brain Activity And Connectivity | Babiloni Fabio Dipartimento Di Fisiologia Umana E Farmacologia, Università Degli Studi Di Roma “La Sapienza” | Katarzyna Blinowska Department Of Biomedical Physics, Warsaw University |
| ME | The Role Of T Regulatory Cells In HIV-1 Patients With Different Rates Of Disease Progression And Receiving Antiretroviral Therapy | Galli, Massimo Department Of Clinical Science, Section Of Infectious Diseases And Tropical Medicine, University Of Milan | Tchórzewski Henryk Institute Centrum Zdrowia Matki Polki, Department Of Clinical Immunology, Lodz |
| FI | Self-Organised Synthesis Of Supported Metal Nanostructures | Buatier De Mongeot Francesco Dipartimento Di Fisica, Università Di Genova, Genova | Szymoński Marek Instytut Fizyki, Uniwersytet Jagielloński Kraków |
| NT | Characterization And Modeling Of Gan Devices For The Design of Advanced Microwave Circuits (CMOGAN) | Caddemi, Alina University Of Messina | Wiatr Wojciech Warsaw University Of Technology |
| E Am | Adisproption with Reaction And Solid Phase Extraction As Eco-Friendly Processes For the Removal of Hazardous Pollutants From Liquid Phases | Szpyrkowicz Lidia Università Cà Foscari Venezia, Dipartimento Scienze Ambientali | Molga Eugeniusz Warsaw Technical University, Department Of Chemical And Process Engineering |
| ME | Proteomic Plataform For Early Dtection and Intervention of Neuroinjury In Neurotrauma, Cerebral Ischemia, Brain Tumor. | Teodori Laura ENEA, Roma | Pawlowska Zofia Medical University Of Lodz |