

# **PROGRAMME OF SCIENTIFIC AND TECHNOLOGICAL CO-OPERATION BETWEEN ITALY AND ROMANIA FOR THE YEARS 2006-2008**

*Within the framework of the Agreement on Scientific and Technological Co-operation between Italy and Romania, which was signed in Bucharest on June 16<sup>th</sup> 1964, the 15<sup>th</sup> Session of the Italian-Romanian Joint Committee was held in Rome on December 5<sup>th</sup> 2005 to examine the present state and further development of scientific and technological co-operation between the two Countries and define the new Programme for the years 2006-2008.*

The Italian delegation was led by Mr. Elio Menzione, Deputy Director-General for Cultural Promotion and Co-operation – Ministry of Foreign Affairs.

The Romanian delegation was led by Ms. Iulia Mihail, Director – Department of European Integration and International Cooperation – National Authority for Scientific Research – Ministry of Education and Research.

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

The following agenda was adopted:

1. Present state of scientific and technological co-operation;
2. New Programme of co-operation;
3. Planning of future meetings.

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

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

**for the Romanian side:** National Authority for Scientific Research – Ministry of Education and Research.

## **1. Present state of scientific and technological co-operation**

The 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 highlight the favourable trend in the scientific relations between the two Countries, their satisfaction with the Executive Programme for scientific and technological cooperation, and the outcomes of the collaboration in the period 2000-2004.

Both Parties place particular emphasis on the role of international co-operation for the further development of the scientific and technologic system in the two Countries. They have also agreed to pay attention to extending the co-operation in international multilateral R&D programmes: European Union R&D programmes, EUREKA, COST, Central European Initiatives, and others.

## **2. New Programme of co-operation**

In the period 27<sup>th</sup> December 2004 -15<sup>th</sup> February 2005 a joint call for proposals was launched in order to collect bilateral research projects in the following priority areas:

- Basic and Applied Sciences: Physics, Chemistry, Mathematics, Biology;
- Innovation and New Technologies;
- Earth Sciences;
- Environment and renewable Energy;
- Life Sciences: Health, Agriculture, Biotechnology, Health and Medicine;

A total number of 104 projects was received by both parties. The two parties, upon deciding which projects should be given priority for financial support, have agreed on the following criteria:

- Scientific relevance of the project;
- Impact on building bilateral scientific & technological relations;
- Social and economic impact;
- Quality of project content and methodology;
- Quality of collaborating partners.

Based upon these criteria, 40 projects have been selected for financial support for the exchange of researchers. The list of the selected projects is given in **Annex 2**.

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

The Italian party will also consider granting a financial contribution to 5 significant bilateral research projects ("progetti di grande rilevanza"). A list of such projects is given in **Annex 4**. These financial contributions are intended to partly cover the research activities of the projects. Financial support will be granted to the Italian partners of the joint project upon evaluation of the applications to be submitted according to indications that will be given by the Italian side.

## **3. Planning of future meetings**

The two parties have agreed that, in order to define the Programme of co-operation for the years 2009-2011, the next session of the Joint Committee will be held in Bucharest in 2008. Details about the date will be agreed upon through diplomatic channels.

The present Programme for the years 2006-2008 will remain in force until the signature of the next one, but no longer than one year after its expiration.

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

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.

The present document, including the Annexes 1,2,3,4, which are an integral part of it, was drawn up in Rome, on December 5<sup>th</sup>, 2005.

**For the Italian side**

**Mr. Elio Menzione**

Deputy Director-General  
for Cultural Promotion  
and Co-operation  
Ministry of Foreign Affairs

.....

**For the Romanian side**

**Mrs. Iulia Mihail**

Director – Department of  
European Integration and  
International Cooperation  
National Authority for Scientific  
Research  
Ministry of Education and  
Research

.....

# **Annex 1**

## **Members of the two delegations**

### **Italian Delegation**

**Mr. Elio Menzione**

Deputy Director General for  
Cultural Promotion and Co-  
operation  
Ministry of Foreign Affairs

**Mr. Francesco Saverio De Luigi**

Head of Office V – Directorate  
General for Cultural Promotion  
and Co-operation  
Ministry of Foreign Affairs

**Mr. Michele Mistò**

Office V – Directorate General for  
Cultural Promotion and Co-  
operation  
Ministry of Foreign Affairs

**Ms. Redenta Maffettone**

Office V – Directorate General for  
Cultural Promotion and Co-  
operation  
Ministry of Foreign Affairs

**Mrs. Lucilla Alagna**

Scientific Expert  
Office V – Directorate General for  
Cultural Promotion and Co-  
operation  
Ministry of Foreign Affairs

### **Romanian Delegation**

**Mrs. Iulia Mihail**

Director - Department of  
European Integration and  
International Cooperation  
National Authority for Scientific  
Research  
Ministry of Education and  
Research

**Mrs. Ecaterina Gica**

Department of European  
Integration and International  
Cooperation  
National Authority for Scientific  
Research  
Ministry of Education and  
Research

**Prof. Ionel Valentin Vlad**

The Romanian Academy

## Annex 2

### List of new joint research projects selected for mobility exchange under the 15<sup>th</sup> Italian-Romanian Executive Programme of S&T Co-operation for the period 2006-2008.

- Basic and applied science
- Innovation and New Technologies
- Earth Science
- Environment and Renewable Energy
- Life Science

	SECTOR	TITLE	ITALIAN COORDINATOR	ROMANIAN COORDINATOR
<b>BASIC AND APPLIED SCIENCE</b>				
1	Basic and applied science: Physics	High ordered nanostructured surfaces and liquid crystal anchoring properties.	<b>Prof. Nicola Scaramuzza</b> Dip. di Fisica Facoltà di Scienze Università della Calabria Ponte Bucci, Buco 33B, 87036 Rende (CS) tel 0984 496113 fax 0984 494401 scaramuzza@fis.unical.it	<b>Prof. Andrei Ionescu</b> Atomic and Physics Dep. Faculty of Physics University of Bucharest POBox MG-11 tel 0040 2145749639 fax 0040 214574521 a3ionescu@txmail.ro
2	Basic and applied science: Physics	Cubic boron nitride as a new material for radiation detection and devices in extreme conditions.	<b>Prof. Claudio Manfredotti</b> Dip. di Fisica Sperimentale Università di Torino Via Pietro Giuria, 1 10125 Torino tel 011 6707306 fax 011 6691104 manfredotti@to.infn.it	<b>Prof. Vasile Sergiu Nistor</b> National Institute of Materials Physics Str. Atomistilor 105bis, 77125 Bucharest tel +40 214930047 fax +40 21 4930267 snistor@infim.ro
3	Basic and applied science: Chemistry	Phase Transitions and Transport Phenomena in Ternary Amphiphilic Solutions.	<b>Prof. Roberto Sartorio</b> Università degli Studi di Napoli "Federico II" Dipartimento di Chimica Via Cinthia, 80126 Napoli tel 081 674227 fax 081 4090 sartorio@chemistry.unina.it	<b>Dr. Florin Buzatu</b> Horia Hulubei National Institute of Research & Development for Physics and Nuclear Engineering (IFIN-HH) Dep. of Theoretical Physics 407 Atomistilor 077125 tel 0040 4042305 fax 0040 4574440 buzatu@ifin.nipne.ro
4	Basic and applied science: Physics	Nanostructured and amorphous magnetic alloys for high-frequency applications.	<b>Dr. Fausto Fiorillo</b> Istituto Elettronico Nazionale "Galileo Ferraris" Strada delle Cacce, 91 10135 Torino tel 011 3919837 fax 011 3919834 fiorillo@ien.it	<b>Prof. Horia Gavrilă</b> Faculty of Electrotechnics Splaiul Independentei 313, 060042 Bucharest tel 0040 214114517 fax 0040214029614 gavrilă@temp.eltech.pub.ro

5	Basic and applied science: Physics	Geometric dynamics, economic growth, market dynamical models, nonholonomic optimization.	<b>Prof. Massimiliano Ferrara</b> Università di Messina Dip. di Economia, Statistica e Analisi Geopolitica del Territorio Via T. Cannizzaro 278, 98122 Messina tel 090 6413784 fax 090 6416275 mferrara@unime.it	<b>Prof. Constantin Udriste</b> University Politehnica of Bucharest Dep. of Mathematics Splaiul Independentei 313 060042 Bucharest tel 0040 21 4029489 fax 0040 21 4115365 udriste@mathem.pub.ro
6	Basic and applied science: Physics	Modulational instability and its relevance for the nonlinear behavior of physical systems.	<b>Prof. Renato Fedele</b> Dipartimento di Scienze Fisiche Università di Napoli "Federico II" Complesso universitario Monte S. Angelo Via Cinthia, 80126 Napoli tel 081 676259 fax 081 67352 renato.fedele@na.infn.it	<b>Dr. Dan Bucur Grecu</b> National Institute of Nuclear Physics and Nuclear Engineering "Horia Hublei " NIPNE Bucharest tel 0040 21 4042335 fax 0040 21 4574440 dgrecu@theor1.theory.nipne.ro
7	Basic and applied science: Physics	Synthesis, characterization and functionalization of nanopowders for biomedical applications.	<b>Dr. Elisabetta Borsella</b> ENEA Unità di Fisica Applicata ( UTS FIS) Via Enrico Fermi 45 00044 Frascati (Roma) tel 06 94005439 fax 06 94005607 borsella@frascati.enea.it	<b>Dr. Ion Morjan National</b> Institute for Lasers, Plasma and Radiation Physics, Laboratory of Laser Photochemistry (NILPRP) 111 Atomistilor St, P.O. Boc MG 36 76900 Bucharest tel 4021 4574489 fax 4021 4754243 morjan@ifin.nipne.ro
8	Basic and applied science: Physics	Strong laser field interaction with atoms and molecules: ultrashort pulse generation and coherent control of electron dynamics.	<b>Dr. Carlo Altucci</b> Università degli Studi di Napoli "Federico II" Complesso Universitario Monte S. Angelo Via Cinthia, 80126 Napoli tel 081 676756 fax 081 676346 caltucci@unina.it	<b>Dr. Valter Tosa</b> National Institute for Research and Development of Isotopic and Molecular Technologies (NIRDIMT) Cluj-Napoca Donathe 71-103, P.O. Box 700 tel 40 264 584037 fax 40 264 420042 tosa@s3.tim-cj.ro
9	Basic and applied science: Mathematics	Reaction diffusion equations, theory, numerical methods and related optimal control problems.	<b>Prof. Vincenzo Capasso</b> Università degli Studi di Milano Dipartimento di Matematica "Federigo Enriques" via C. Saldini, 50, 20133 Milano tel 02 50316100 fax 02 50316090 dipmat@mat.unimi.it	<b>Prof. Sebastian Anita</b> University "Al. I. Cuza" Faculty of Mathematics Varol I, 11 Iasi 700506 tel 40 232 201060 fax 40232 201160 admmath@uaic.ro
10	Basic and applied science: Mathematics	High performance structure exploiting algorithms for systems identification.	<b>Dr. Nicola Mastronardi</b> Istituto per le Applicazioni del Calcolo "M. Picone" sez. di Bari Via Amendola, 122/D 70126 Bari tel 080 5929740 fax 080 5929770 n.mastronardi@ba.iac.cnr.it	<b>Dr. Vasile Sima</b> National Institute for Research & Development in Informatics (ICId) Bd. M. Averescu, 8-10 011455 tel 40 021 2240765 fax 40 021 2241030 vsima@u3.ici.ro

11	Basic and applied science: Chemistry	New electrochemical biosensors for wine marker analysis.	<b>Prof. Giuseppe Palleschi</b> Università di Roma "Tor Vergata" Dipartimento di Scienze e Tecnologie Chimiche via della Ricerca Scientifica 00133 Roma tel 06 72594423 fax 06 2024342 giuseppe.palleschi@uniroma2.it	<b>Prof. Camelia Bala</b> University of Bucharest Faculty of Chemistry B-dul R. Elisabet 4-12 sector 1, 030018 Bucharest tel 4021 4103178 fax 4021 2426151 cbala@rnc.ro
12	Basic and applied science: Physics	Photopyroelectric study of thermal and electrical properties of the piezoelectric sensors used in the detection of radiation. The influence of the electric and magnetic fields on these properties and on the signal generation.	<b>Prof. Massimo Marinelli</b> Dip. di Ingegneria Meccanica Università di Roma "Tor Vergata" Via del Policlinico 1, 00133 Roma tel 06 72597190 fax 06 72597194 massimo.marinelli@uniroma2.it	<b>Prof. Dorin Nicolae Dadarlat</b> National Institute for Research and Development of Isotopic and Molecular Technologies 71-103 Donath St. POB 700, Cluj-Napoca 400293 tel 0040 264584037 fax 0040 264420042 dadarlat@s3.itim-cj.ro
13	Basic and applied science: Chemistry	New bulk amorphous and nanocomposite materials for magnetic applications	<b>Dr.ssa Paola Tiberto</b> Istituto Elettrotecnico Nazionale "Galileo Ferraris", Strada delle Cacce 91, 10135 Torino tel 011 3919857 fax 011 3919834 tiberto@ien.it	<b>Prof. Dr. Horia Chiriac</b> National Institute of Research and development for Technical Physics; 47 Margheron Boulevard, Po Box 833, 700050 Iasi 3; tel +40 232 430680 fax +40 232 231132 hchiriac@phys-iasi.ro
14	Basic and applied science: Chemistry	Radiolabelling of specific biomolecules with therapeutic radionuclides. Chemical aspects, self radiolysis and scavengers' effect.	<b>Prof. Ulderico Mazzi</b> Università di Padova Dipartimento di Scienze Farmaceutiche Facoltà di Farmacia Via F. Marzolo, 5 - 35131 Padova tel. +39-049-8275340 fax +39-049-8275366	<b>Dr. Dana Niculae</b> "Horia Hulubei" National Institute for Physics and Nuclear Engineering, (NIPNE) Bucharest, Romania PO Box MG6; 407 Atomistilor street; com. Magurele Jud. Ilfov tel +4021)4042300, ext 4518 fax +4021)4574432; (04021)4574440; e-mail: danani@ifin.nipne.ro
15	Basic and applied science: Physics	Bistable Donors in Si: identification and role in terms of radiation hardness.	<b>Prof.ssa Mara Bruzzi</b> Università di Firenze Dipartimento di Energetica Via S. Marta 3 50139 Firenze tel +39-055-4796350 fax +39-055-4796342 bruzzim@fi.infn.it	<b>Dr.ssa Ioana Pintile</b> National Institute of Materials Physics "Physics of Semiconductor Materials and Complex Structures" Department Bucuresti-Magurele, Str Atomistilor Nr. 105 Bis, P.O.Box MG-7, 77125 tel +4021 493.01.95 fax +4021 493.02.67 ioana@infim.ro

16	Basic and applied science: Chemistry	Modeling of the polymer structure and properties and coupling/release of bioactive substances by magnetic field application	<b>Dott. Sossio Cimmino</b> CNR Istituto di Tecnologia dei Polimeri ICTP Via Campi Flegrei, 34 80078 Pozzuoli (Na) tel 081 8675068 fax 081 8675230 cimmino@ictp.cnr.it	<b>Dr. Cornelia Vasile</b> Romanian Academy "Petru Poni" Institute of Macromolecular Chemistry 41 A Grigore Ghica Voda Aley 700487 tel +40 232 217454 fax +40 232 211 299 cvasile@icmpp.ro
17	Basic and applied science: Physics	The dynamics of nuclear collisions at low and intermediate energies and signals of phase transition.	<b>Dr. Angelo Pagano</b> INFN-Catania 64, Via S. Sofia, I-95123 Catania tel 39 095 378 5111 fax +39 095 378 5231 Angelo.Pagano@ct.infn.it	<b>Dr. Miihai Petrovici</b> National Institute of R&D for Physics and Nuclear Engineering- "Horia Hulubei" St. Atomistilor no. 407, P.O. Box MG-6, RO-077215 Bucharest - Magurele, tel + 4021 4042392 fax+ 4021 4574440 mpetro@ifin.nipne.ro
18	Basic and applied science: Physics	Optical devices using spacial solitons and nonlinear interactions in photorefractive crystals for communication.	<b>Prof. Eugenio Fazio</b> Dipartimento di Energetica Università degli Studi di Roma "La Sapienza" Via Scarpa 14-16 00161 Roma tel 06 49766543 fax 06 44240183 eugenio.fazio@uniroma1.it	<b>Prof. Valentin Vlad</b> National Institute of Lasers, Plasma and Radiation Physics, Romanian Centre of Excellence in Photonics Paltforma Magurele Str. Atomistilor 409 Bucharest tel +40 21 4574467 fax +40 21 4574467 vlad@inin.nipne.ro
19	Basic and applied science: Physics	Optical spectroscopy of point defects in heavy metals doped LiF for photonic applications.	<b>Dr. ssa Rosa Maria Montereali</b> ENEA FIS/ACC Via E. Fermi, 45 CP 65 00044 Frascati (Roma) tel 06 94005296 fax 06 94005334 montereali@frascati.enea.it	<b>Dr. Mihail Secu</b> Optics and Spectroscopy Department National Institute of Materials Physics Bucharest 105 bis PO Box MG 7 tel +40 21 4930195 fax +40 21 4930267 msecu@infim.ro
20	Basic and applied science: Physics	Emerging technologies for combustion process control in ICE by nanoparticle colloidal suspensions in fuels - NANOFUELS.	<b>Dr. Luigi Allocca</b> Istituto Motori CNR Via Marconi, 8 80125 Napoli tel 081 7177152 fax 081 2396097 l.allocca@im.cnr.it	<b>Dr. Eden Mamut</b> "Ovidius" University of Costanza 124 Mamaia Av. 900527 tel +40 241 614983 fax +40 241 614983 emamut@univ-ovidius.ro
<b>INNOVATION AND NEW TECHNOLOGY</b>				
21	Innovation and New Technologies	Development of new-advanced 3D analysis techniques & software tools for optimization of micro - electro - mechanical devices.	<b>Prof. Renato Rizzo</b> Electromechanical Design and Electric Machines Laboratory University of Naples "Federico II" Via Claudio 21, 80125 Naples tel 0817683231 fax 081 7683223 renrizzo@unina.it	<b>Prof. Vasile Topa</b> Electrical Engineering Technical University of Cluj-Napoca Str. G. Baritiu 26-28 RO-400027, Cluj-Napoca Romania tel 0040 264 401244 fax 0040 264 592903 vtopa@et.utcluj



22	Innovation and New Technologies	Nanostructured silicon for optical biosensors.	<b>Prof. Lorenzo Pavesi</b> Università di Trento Dipartimento di Fisica Via Sommarive, 14 Trento tel 0461 881605 fax 0461 881696 pavesi@science.unitn.it	<b>Dr. Ing. Irina Kleps</b> National Institute for Research and Development in Microtechnologies IMT-Bucharest Via Erou Iancu Nicolae 32 B tel 0421 4908412 fax 0421 4908238 irinak@imt.ro
23	Innovation and New Technologies	Pulsed laser ablation deposition and characterization of doped and undoped semiconductor metal oxide thin films for gas sensing applications.	<b>Prof. Alessio Perrone</b> Università di Lecce Dipartimento di Fisica e Laboratorio Nazionale di Nanotecnologia V Via Arnesano, 73100 Lecce tel 0832 297501 fax 0832 297505 alessio.perrone@le.infn.it	<b>Prof. Eniko Gyorgy</b> National Institute of Lasers, Plasma and Radiation Physics (NILPRP) Lasers Dep. Atomistilor 111, 76900 Bucharest tel. 0040 21 4574491 fax 0040 21 4574243 eniko@ifin.nipne.ro
24	Innovation and New Technologies	Electromagnetic band gap (EMBG) materials and devices for microwave and millimeter wave applications.	<b>Prof. Romolo Marcelli</b> CNR Istituto per la Microelettronica e Microsistemi - Sez. di Roma Area della Ricerca di Roma 2 "Tor Vergata" Via del Fosso del Cavaliere, 100 00133 Roma tel 06 49934536 fax 06 49934066 romolo.marcelli@psm.rm.cnr.it	<b>Prof. Gheorghe Ioan Sajin</b> National Institute for Research and Development in Microtechnologies (IMT) Erou Iancu Nicolae 126A Bucharest tel 0040 14908412 fax 0040 14908238 gsajin@imt.ro
25	Innovation and New Technologies	New technologies and materials for millimeter-wave mems reconfigurable circuits	<b>Prof. Flavio Giacomozzi</b> Istituto Trentino di Cultura-Centro per la Ricerca Scientifica e Tecnologica ITC-irst Trento Via Sommarive, 18 38050 tel/fax 0461 314444 giaco@itc.it	<b>Dr. Alexandru Muller</b> National Institute for Research and Development in Microtechnologies IMT Erou Iancu Nicolae 126A 077190 P.O.Box 38-160 tel/fax +4021 4908412 alexm@imt.ro
26	Innovation and New Technologies	Design and characterization of RF mems tunable filters for millimeter wave applications.	<b>Prof. Giancarlo Bartolucci</b> Università "Tor Vergata" via del Politecnico 1 00133 Roma tel 06 72597315 fax 06 2020519 bartolucci@eln.uniroma2.it	<b>Dr. Dan Neculoiu</b> National Institute for Research and Development in Microtechnologies IMT Bucharest Erou I. Nicolae 32B 077190 P.O.Box 38-160 r-023573 tel +40 1 4908581 fax +40 1 4908238 neculoiu@imt.ro
27	Innovation and New Technologies	Laser Processing Technologies of Polymers for the Optoelectronic and Microelectronic Industry.	<b>Prof. Edoardo Capello</b> POLITECNICO DI MILANO SITEC Lecco - Laboratorio per le Applicazioni Laser Dipartimento di Meccanica P.zza Leonardo da Vinci, 32 I-20133 Milano tel (+39) 02.2399.4890-4925 fax (+39) 02.70638377 edoardo.capello@polimi.it	<b>Dr. Ileana Apostol</b> National Institute for Research and Development for Laser, Plasma and Radiation Physics Atomistilor str. 409, Code 077125, OP-CP MG 36, Bucuresti-Magurele, Jud. Ilfov ) tel 00 40 21 4574489 fax 00 40 21 4574243 medianu@nipne.ro

EARTH SCIENCE				
28	Earth Science	Changes in the characteristics of extreme climate events in southern and southeastern Europe.	<b>Dr. Carlo Cacciamani</b> ARPA - Servizio Meteorologico Regionale 40122, Viale Silvani 6, Bologna, ITALIA tel +39 051-649.7511 fax +39.051.649.7501 ccacciamani@smr.arpa.emr.it	<b>Dr. Aristita Busuioc</b> National Meteorological Administration Sos. Bucuresti-Ploiesti 97 013686 Bucharest, Romania tel +40 21 230 32 40/int. 229 fax +40 21 230 77 62 busuioc@meteo.inmh.ro
29	Earth Science	Impact of the physical and chemical properties of aerosol on cloud formation and on the earth's radiative budget.	<b>Dr. Maria Cristina Facchini</b> Istituto di Scienze dell'Atmosfera e del Clima CNR 40129 Bologna tel 051 6399563 fax 051 6399467 mc.facchini@isac.cnr.it	<b>Dr. Sabina Stefan</b> University of Bucharest Faculty of Physics Dept. Of Atmospheric Physics 077125 P.O. Box MG-11 Bucharest tel 4021 4574949 fax 4021 4574521 sabinastefan@atmos.fizica.unibuc.ro
30	Earth Science	Estimation of land primary productivity by MODIS data	<b>Dr. Fabio Maselli</b> Institute of Biometeorology via G. Caproni 8 50145 Firenze, Italy, tel+39 055 5226024 fax +39 055 308910 maselli@ibimet.cnr.it	<b>Dr. Elena Savin</b> Remote sensing & GIS Lab, NMA, 97, Soseaua Bucuresti-Ploiesti, Bucharest 013686 tel +40 21 230 3116 fax +40 21 230 77 62 savin@meteo.inmh.ro
31	Earth Science	Seismic risk management for the city of Bucharest.	<b>Prof. Giuliano Panza</b> Università di Trieste Dipartimento di Scienze della Terra Via Weiss, 4 34127 Trieste tel 040 5582117 fax 040 5582111 panza@dst.univ.trieste.it	<b>Prof. Gheorghe Marmureanu</b> National Institute for Earth Physics (NIEP) P.O.Box MG2 76900 Bucharest tel-fax +40 21 4930118 marmur@infp.ro
ENVIRONMENTAL AND RENEWABLE ENERGY				
32	Environmental and Renewable Energy	Environmental quality understanding inferred by laboratory investigation of the borne pollutants released by industrial and agricultural activities in a small part of Romania.	<b>Dott. Davide Vione</b> Università degli Studi di Torino Via P. Giuria, 5 10125 Torino tel 011 6703020 fax 011 6703021 davide.vione@unito.it	<b>Dott. ssa Cecilia Arsene</b> Dep. Of Analytical Chemistry Faculty of Chemistry University "Al. I Cuza" of Iasi Carol I, 11 Iasi tel 40 232 201 363 fax 40 232 201 313 carsene@uaic.ro
33	Environmental and Renewable Energy	Study of the transfer processes of freshwater and sediments coastal processes. Comparison between the Danube Delta mouths (Romania) and the Venice Lagoon (Italy)	<b>Dott. Roberto Zonta</b> CNR-ISMAR, Istituti di Scienze Marine, via San Polo, 1364-30125 Venezia. tel 041 5216817 fax 041 5216815 roberto.zonta@ismar.cnr.it	<b>Dott. Ungureanu Gheorghe Viorel</b> Str. Traian Vuia Nr.4, sect. 2 020956 Bucharest tel 021 2113120 fax 021 2113120 v.g.ung@gg.unibuc.ro gigi_ungureanu@yahoo.com

34	Environmental and Renewable Energy	Municipal solid waste bio-drying and waste - to energy options.	<b>Prof. Marco Ragazzi</b> Università di Trento Dipartimento di Ingegneria Civile ed Ambientale via Mesiano 77 38050 Trento tel 0461 882629 fax 0461 882672 Marco.Ragazzi@ing.unitn.it	<b>Prof. Adrian Badea</b> University Politehnica of Bucharest Power Engineering Faculty Splaiul Independentei 313 sector 6 Bucharest tel +40 21 4029433 fax +40 21 4113161 badea@energ.pub.ro
35	Environmental and Renewable Energy	Italian-Romanian Initiative for Development of sustainable Energy from renewable sources.	<b>Roberto Napoli</b> Politecnico di Torino - Dipartimento di Ingegneria Elettrica Corso Duca degli Abruzzi 24 Torino tel 011 564 7136 fax +39 011 564 7199 roberto.napoli@polito.it	<b>Petru POSTOLACHE</b> Universitatea POLITEHNICA din Bucuresti – Facultatea de ENERGETICA Splaiul Independentei 313 Bucharest tel. +40. 21. 402.94.82 fax +40. 21. 402.94.46 petrupostolache@yahoo.com
<b>LIFE SCIENCE</b>				
36	Life Science: Health and Medicin	New biomimetic calcium phosphate coatings for metallic implants.	<b>Prof.ssa Adriana Bigi</b> Dipartimento di Chimica "G. Ciamician" Università di Bologna Via Selmi, 2 40126 tel 051 2099551 fax 051 2099456 adriana.bigi@unibo.it	<b>Prof. Ion N. Mihailescu</b> National Institute of Lasers, Plasma and Radiation Physics (NILPRP), P.O.Box MG-54, Bucharest
37	Life Science: Health and Medicin	Radioactive Biomolecules for Imaging and Targeted Therapy of Cancer.	<b>Prof. Adriano Duatti</b> Laboratorio di Medicina Nucleare Dipartimento di Radiologia Università di Ferrara Via L. Borsari, 46 44100 Ferrara tel 0532 236545 fax 0532 236 589 dta@unife.it	<b>Prof. Valeria Lungu</b> "Horia Hulubei" National Institute for Physics and Nuclear Engineering, (NIPNE) Bucharest PO Box MG6; 407 Atomistilor street; com. Magurele Jud. Ilfov tel (04021)4042300, fax (04021)4574432 vlungu@ifin.nipne.ro
38	Life Science: Health and Medicine	Oxidative stress in oral diseases: a biochemical and clinical study.	<b>Dott. Maurizio Battino</b> Istituto di Biochimica Facoltà di Medicina Università Politecnica delle Marche Via Ranieri, 65 60100 Ancona tel 071 2204646 fax 071 2204398 m.a.battino@univpm.it	<b>Prof. Maria Greabu</b> UMF "Carol Davila" Faculty of Dental Medicine Dep. Of Biochemistry Blvd Eroilor Sanitari n. 8, sector 5, Bucharest tel 4021 2249100 fax 4021 2241973 mgreabu@lycos.com

39	Life Science: Agriculture	Microflora evaluation during spontaneous fermentations of Amarone and Cabernet Sauvignon wines and selection of microorganisms useful for maintaining the "territorial" typical traits of wines.	<b>Prof. Franco Dellaglio</b> Università degli Studi di Verona Dipartimento Scientifico e Tecnologico Strada Le Grazie 15, 37134 VERONA (Italy) tel +39 045 8027917 fax +39 045 8027051 franco.dellaglio@univr.it	<b>Prof. Ion Stroia</b> Laboratory for Fermentation Technologies and Refrigeration in Food Industry Institute of Food Research 39 Ion Minulescu Street, Sector 3, 031215 Bucharest tel +40 21 3305145 fax +40 21 3305145 ica_lptf@rnc.ro
40	Life Science: Health and Medicine	Impact of immuno- and geno-typing for improving diagnoses and planning treatment of human tumors.	<b>Prof. Gianni Bussolati</b> Università di Torino, Dipartimento di Oncologia e di Scienze Biomediche Sezione di Anatomia Patologica I, 10126, Via Santena 7, Torino tel (++39) 011-6706505 fax (++39) 011-6635267; gianni.bussolati@unito.it	<b>Prof. Carmen Ardeleanu</b> National Institute of Research and Development in Pathology and Biomedical Sciences "VICTOR BABES" Address 99-101 Splaiul Independentei, sect. 5, 050096 Bucharest tel. +40-21 – 411.50.85 fax +40-21 411.51.05/ e-mail: carmena@vbabes.ro

## **Annex 3**

### **Administrative and financial provisions**

#### **Financial Provisions for implementing the joint research projects listed in Annex 2 under the 15<sup>th</sup> Italian-Romanian Executive Programme of S&T Co-operation for the period 2006-2008.**

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

For each project listed in Annex 2 , 1 short-term stay (up to 10 days) and 1 long-term stay (1 full month = 30 days) will be financed yearly.

The researchers will be entitled to the exchange only if they hold the nationality of one of the two countries signing this Executive Programme, or if they hold a EU nationality and are legally resident in one of the two countries.

The international travel expenses between the two cooperating partner institutions shall be borne by the sending party, while the receiving party shall bear the expenses of lodging and boarding by means of an all-inclusive allowance.

Both parties shall provide medical insurance coverage, on the basis of the rules in force in each Country, against accidents and illnesses, excluding already existing and chronic diseases.

The researchers have to submit to the host Country, within 30 days after finishing their research, a final report on the activities carried out. The report must be co-signed by both the Romanian and Italian researchers involved in the joint project.

#### **STAY OF ROMANIAN RESEARCHERS IN ITALY**

The Italian party will finance, yearly, for each project listed in Annex 2, 1 short-term stay (up to 10 days) and 1 long-term stay (1 month= 30 days).

The application for both long- and short-term research stays shall be submitted exclusively through diplomatic channels. These applications shall be received, no later than two months before the beginning of the research visit, by the *Office V – Directorate General for Cultural Promotion and Co-operation of the Italian Ministry of Foreign Affairs*.

In order to obtain traveling documentation Romanian researchers intending to travel to Italy for study visit must send a request to the Department of European Integration and International Cooperation, National Authority for Scientific Research, Ministry of Education and Research. The request must be sent no later than two months before the foreseen date of departure to the following address:

*Ministry of Education and Research  
National Authority for Scientific Research  
European Integration and International Cooperation Department  
21-25 Mendeleev Street  
Bucharest, Romania*

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

- Letter of acceptance of the host Institution;
- Application Form signed by the Romanian researcher, indicating personal and professional data of the applicant, 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 following address: [http://www.esteri.gov.it/ita/4\\_28\\_67\\_81\\_91\\_91.asp](http://www.esteri.gov.it/ita/4_28_67_81_91_91.asp) ;
- Detailed work programme;
- Curriculum Vitae of the researcher;
- 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:

- respecting the indicated period of visit;
- not receiving retributions by other International Organizations or Corporations during his/her stay;
- not changing work programme, destination and not leaving Italy without authorization;
- submitting, 30 days after completion of the research visit, a final report on the activities carried out;
- transmitting 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.

The Romanian Party, in accordance with Romanian laws in force, will bear the expenses related to medical insurance policies for the stay of the Romanian researchers in Italy, since they are necessary at the moment of the departure.

The Italian Party will also cover the necessary insurance cost for the Romanian 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.: 39 06-36917121) 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 1300,00 Euro per month for long term stays (1 full month= 30 days) and 93,00 Euro per day for short term stays (up to 10 days).

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

Romanian 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.

## **STAY OF ITALIAN RESEARCHERS IN ROMANIA**

The Romanian party will finance, yearly, for each project listed in Annex 2, 1 short-term stay (up to 10 days) and 1 long-term stay (1 full month = 30 days).

The application for both long- and short-term research stays shall be submitted exclusively through diplomatic channels. These applications shall be received, no

less than two months before the beginning of the research visit, by the *Department of European Integration and International Cooperation – National Authority for Scientific Research – Ministry of Education and Research*.

The Romanian Party shall provide daily allowance for long- and short-term visit in accordance with the Annex of the Governmental Decision n. 1241/2004, chapter II, item A.3 or according to the legislation in force.

The above amounts shall be paid to the Italian researchers entirely at their arrival in Romania by the host Institution. The National Authority for Scientific Research – Ministry of Education and Research, will reimburse the host Institution according to the internal rules in force.

## **JOURNEY OF ITALIAN RESEARCHERS TO ROMANIA**

In order to obtain travelling documentation, Italian researchers intending to travel to Romania for study visits must send a request to the Ministry of Foreign Affairs, General Directorate for Cultural Promotion and Co-operation, Office V. The request must arrive no later than two months before the foreseen date of departure to the following address:

*Ministero degli Affari Esteri  
DGPCC, Ufficio V,  
Piazzale della Farnesina, 1  
00194 ROMA*

The request shall specify:

- name and address of the hosting Institution,
- departure and return travelling dates,
- title of the research project object of the mission.

In the request the researcher must declare his/her availability to:

- refund penalty charges relative to travelling expenses (up to the total amount of the ticket) in case he/she cancels the mission,
- deliver, within 30 days from the end of the mission, a short relation on the activities carried out as well as the original travelling documents (tickets and boarding cards).

Moreover, the researcher shall attach the following documentation to the request:

- an invitation letter from the foreign institution (university, body or research centre) which will host the researcher,
- a declaration of the Italian project co-ordinator confirming the participation of the researcher to the Project and authorising the specific mission (only in case the researcher is not the project co-ordinator him/herself),
- a short curriculum vitae of the researcher.

The supplied tickets will be the most economical ones available for the trip, any additional cost shall be borne by the researcher.

The Italian researchers are kindly invited to take out an additional insurance against accidents and illnesses during their stay in Romania.

Instructions for the presentation of the request and the application form to be filled in are available on the web site of the Italian Ministry of Foreign Affairs [http://www.esteri.gov.it/ita/4\\_28\\_67\\_81\\_91\\_90.asp](http://www.esteri.gov.it/ita/4_28_67_81_91_90.asp)

## **JOURNEY OF ROMANIAN RESEARCHERS TO ITALY**

In order to obtain travelling documentation, Romanian researchers intending to travel to Italy for study visits must send a request to the Department of European Integration and International Cooperation, National Authority for Scientific Research – Ministry of Education and Research. The request must arrive no later than two months before the foreseen date of departure to the following address:

*Ministry of Education and Research  
National Authority for Scientific Research  
21-25, Mendeleev Street  
Romania, Bucharest*

The request shall specify:

- name and address of the hosting Institution
- departure and return travelling dates
- title of the research project object of the mission
- foreseen budget to be reimbursed.

The request of reimbursement shall be sent to the Ministry at the above-mentioned address no later than 10 days after the arrival.



## Annex 4

### List of significant bilateral research projects selected under the 15<sup>th</sup> Italian-Romanian Executive Programme of S&T Co-operation for the period 2006-2008 (5 projects)

PROJECT NUMBER	SECTOR	TITLE	ITALIAN COORDINATOR	ROMANIAN COORDINATOR
1	Basic and applied science: Mathematics	Geometry and topology of complex projective varieties: theoretical and computational aspects.	<b>Prof. Mauro Beltrametti</b> Università di Genova Dipartimento di Matematica Via Dodecaneso, 35 16146 Genova tel 0103536751 fax 010 3536752 beltrame@dima.unige.it	<b>Prof. Vasile Brinzanescu</b> Institute of Mathematics "Simion Stoilow" P.O.Box 1- 764, 014700 tel +40 21 2125648 fax +40 21 2125126 vasile.brinzanescu@imar.ro
2	Life Science	Bioelectronic micro devices for bioanalysis and diagnosis. Feasibility study for clinical applications.	<b>Dr. Vittorio Foglietti</b> IFN-CNR (già IESS-CNR) Via Cineto Romano 42 00156 Roma tel ++39 06 415221 fax ++39 06 41522220 foglietti@ifn.cnr.it <a href="http://www.ifn.cnr.it/">http://www.ifn.cnr.it/</a>	<b>Dr.ssa Mariana Mihaela Ilie</b> Image Processing and Analysis Laboratory (IPAL), "POLITEHNICA" University of Bucharest, P.O. Box 35-57, Bucharest 35, Romania tel (+4021)402.46.83 (+4021)402.47.91 fax (+4021)402.48.21 milie@alpha.imag.pub.ro
3	Innovation and New Technologies	International Master on Virtual Environments.	<b>Prof. Massimo Bergamasco</b> Scuola Superiore Sant'Anna Piazza Martiri della Libertà 33 56127 Pisa tel 050 883343 fax 050 883344 bergamasco@sssup.it	<b>Prof. Gheorghe Mogan</b> University Transilvania of Brasov Ovidius University of Constanta
4	Basic and applied science	Sviluppo di una produzione di deuterio ultra-puro e di contenitori speciali adatti al suo stoccaggio a lungo termine.	<b>Dr. Franco Pavese</b> CNR - Istituto di Metrologia "G.Colonnetti" strada delle Cacce 73 10135 Torino, Italy tel +39 011 3977 341 fax +39 011 3977 347 f.pavese@imgc.cnr.it	<b>Dr. Vasile Stanciu</b> National Institute for research and development for cryogenic and isotopic technologies" (ICSI/ICIT), Ramnicu Valcea, Romania

5	Life Science: Biotechnology	Hybrid enzyme-inorganic nanocomposites based on highly ordered nanoporous materials and their applications for fine chemicals.	<b>Dr. Francesco Secundo</b> CNR Via Mario Bianco, 9 20131 Milano tel 02 28500029 fax 02 28500036 francesco.secundo@icrm.cnr.it	<b>Dr. Emil Dumitriu</b> Technical University of Iasi Faculty of Industrial Chemistry 71 D. Mangeron Ave, Iasi 700050 tel +40 232 278683 faxz +40 232 271311 ibalasan@ch.tuiasi.ro
---	--------------------------------	---	---	--