Research Centres from Romania

Microphysical Characterization Laboratory

Independent centre: *No*
Parent Organisation: *National R&D Institute for Microtechnologies-IMT Bucharest*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Mr Adrian Dinescu*
Position (function): *Head of the Laboratory*
E-mail: *adriand@imt.ro*
Phone: *+40-21-4908581*
Fax: *+40-21-4908238*
Web page: *http://www.imt.ro/INTERNET_IMT/about_imt/Departamente/Centre/Laboratoare/L21/L21.htm*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
- 2 senior researchers, 3 scientific researchers, 2 research assistants
(1 PhD and 3 PhD students)
- Micro and nanoscale characterization by Scanning Probe Microscopy (SPM) and Scanning Electron Microscopy (SEM)

Relevant equipments:
- Atomic Force Microscope
- Scanning Electron Microscope
- Software - Scanning Probe Image Processor(SPIP – Image Metrology)

Scanning Electron Microscope - TESCAN VEGA II LMU, provided with pattern generator RAITH -ELPHY Plus for e-beam lithography. The SEM is a variable pressure model with large chamber and 4 axes motorized stage, enabling examination of non-conducting, water containing specimens in their natural state at low vacuum conditions. SEM resolution : 3 nm (scanning speed 200 ns-10 ms/pixel) for 200 V acceleration voltage, at 30 kV, beam current 1pA-2 A). Pattern generator resolution: 50 nm. Writing speed resolution: 2 ns

Scientific and technological services provided:
Surface characterization by Atomic Force Microscopy

FP6:

FP5:

Other international Project:

Technological Transfer Center for Optoelectronics

Independent centre: *No*
Parent Organisation: *S.C. OPTOELECTRONICA -2001 S.A.*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Technology transfer/Innovation*
Oficial contact person of the "centre", Name: *Mrs Alexandra Caramizoiu*
Position (function): *director*
E-mail: *alex@optoel.ro*
Phone: *4021 4574498*
Fax: *4021 4574204*
Web page: *www.optoel.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Transport (including Aeronautics)
- Security and Space

Interest in technological platforms:

Human resources and competence description:
Highly trained, experienced experts

Relevant equipments:

Scientific and technological services provided:
The objective of CTTO is to promote the development of optoelectronic industry, to inform interested parties on the new optoelectronic breakouts, new development possibilities and new optoelectronic technologies available, through technological transfer. The activity of technological transfer in optoelectronics will enhance the competitiveness of assisted companies.

FP6:

FP5:

Other international Project:

Microstructures and microsystems for microwave, millimeter wave and submillimeter waves-RF MEMS

Independent centre: *No*
Parent Organisation: *National R&D Institute for Microtechnologies-IMT Bucharest*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Alexandru Muller*
Position (function): *Head of the Laboratory*
E-mail: *alexm@imt.ro*
Phone: *+40-21-4908581*
Fax: *+40-21-4908238*
Web page: *http://www.imt.ro/INTERNET_IMT/about_imt/departamente/centre/C13/a/main.htm*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
8 senior researchers (6 doctors)+ 2 PhD students
Design, modelling and manufacturing of membrane supported millimeter wave circuits on semiconductor and dielectric membranes;
Developing of the RF-MEMS field

Relevant equipments:
Computers and software (IE3D and Fidelity from ZELAND and COVENTOR software packages) for simulation and design
Access to the technology laboratory and mask manufacturing facilities
Access (by international cooperation) to millimetre wave on wafer measurements

Scientific and technological services provided:
electromagnetic design and simulation
mask design and manufacturing

FP6:
Advanced MEMS for RF and millimeter wave communications -AMICOM-2004-2006

FP5:
LAAS Toulouse-IMT: IMPACT Project "Micromachined filters and antennas for 94GHz"

Other international Project:
MICROMACHINED CIRCUITS FOR MICROWAVE AND MILLIMETER WAVE APPLICATIONS
Project number: 977131 MEMSWAVE
FP4, 1998-2001
nominated for the Descartes Prize 2002

Laboratory for quality control

Independent centre: *No*
Parent Organisation: *University Politehnica of Bucharest*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Alina Catrinel Ion*
Position (function): *head of the laboratory*
E-mail: *ac_ion@yahoo.com*
Phone: *0040214023904*
Fax: *0040212319492*
Web page: *www.apilab.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- SUSTAINABLE CHEMISTRY

Human resources and competence description:
Doctor's title analytical chemistry
Project management courses
Quality management courses
Training courses GC/MS maintenance
Training and Research in Environmental Health Internal auditor for food security certificate and for quality systems in laboratories,
ISO 22000, ISO17025

Relevant equipments:
Cromatograf de gaze cuplat cu spectrometru de masa (GC-MS) Producator: VARIAN
Ion Trap(GC 3900 si MS Saturn 2200) (2007)
HPLC(Cromatograf de lichide de inalta performanta) echipat cu 3 detectori, WATERS
Detectori : UV-Vis cu dublu canal, Fluorescenta, Indice de refractie (achizitionat 2007)
Instrument voltametric computerizat ECOCHEMIE
AUTOLAB cu PGSTAT30 cu stand Metrohm 663VA pentru determinari voltametrice si modul de impedanta
Spectrofotometru UV-Vis V-530 Producator :JASCO
Spectrofotometru cu dublu fascicol, largimea benzii 0,2 nm (uzura 5%)
Interfata ELITE 8908, NICCO
pentru masuratori potentiometrice simultane (8 canale), senzor de temperatura (uzura 5%)
Evaporator rotativ Heidolph, 2007
Sistem de extractie in faza solida 2007
pH-metre Digitale (uzura 5%)
conductometre Digitale (uzura 5%)

Scientific and technological services provided:
research and courses on food analysis, methods validation and quality control

FP6:

FP5:

Other international Project:

National Institute for Research and Development on Occupational Safety

Independent centre: *No*
Parent Organisation: *Ministerul Muncii, Solidarit*
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Mr Andrei Serban Stanescu*
Position (function): *General Manager*
E-mail: *cis_inpm@rnc.ro*
Phone: *+4021 3131727/133; +4021 3131720/133*
Fax: *+4021 3157822*
Web page: *www.protectiamuncii.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
150 employees
-researchers specialists in occupational dafety, lbour [rotection, environmental protection, quality system, safety and health management system, risk assesment

Relevant equipments:
- analytical equipments: AAS, UV-VIS, GC-FID, gases analysers, pumps
- noise and vibration analyser

Scientific and technological services provided:
- risk assesment
- chemical analysis
- safety environment

FP6:

FP5:

Other international Project:
Topic Centre inGood Laboratory Practices, Candidte Countries, PHARE, 2003-2004

Centre for Advanced Technologies for New Materials

Independent centre: *No*
Parent Organisation: *University Politehnica Bucharest*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Technology transfer/Innovation*
Oficial contact person of the "centre", Name: *Prof Andrei SZUDER*
Position (function): *Director*
E-mail: *szuder@ctanm.pub.ro*
Phone: *40 21 3169575*
Fax: *40 21 3169576*
Web page: *www.ctanm.pub.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)

Interest in technological platforms:

Human resources and competence description:
- Prof. Dr. Ing. Andrei SZUDER.
1975 Ph.D. in Manufacturing Engineering ". Polytechnic Institute of Jassy. Romania.

1977 Ph.D. in Engineering (Tribology) with the highest distinction in France "Trés honorable avec les felicitations du jury", Claude Bernard University. Ecole Centrale de Lyon. Surface Technology Laboratory. Lyon. France.
Professional experience: over 25 years
Founding and Board member of the Romanian Association of Tribology. 1985
Member of the French Society of Tribology. 1985
Member of American Society of Manufacturing Engineers – SME 1997
Comptences in : Abrasion, suprefinishing process, lapping, tribodiagnosis of mechanisms failures and accidents, high speed cutting, Aluminium manufactuarbility, Solar energy, European Projects Design and Cooperation
Surface finishing of bob sleighs and boats

- Conf. Dr. Ing. Tom SAVU
1998 - Ph.D. in Tribology, UPB, Romania

Relevant equipments:
- Tribometers
- State of the Art National Instruments Data aquisition system - Hardware and Software
- Sensors

Scientific and technological services provided:
- Tribology maesurements
- Mechanical failures measurement and diagnosis
- Friction and wear measurements
- Consultancy, research, traning
- Application development and system integration for computerized measurement and automation systems (data aquisition)

FP6:
Nanomat- FP 6
SSA No ETIS – CT -2003 - 508695 "Getting Small and Medium-sized Enterprises from Candidate countries to Increase participation on Nanotechnology projects" Partner

Get –In FP 6
SSA 2004 "Getting Small and Medium-sized Enterprises from Candidate countries to Increase participation on IST projects" Partner

REFORM - FP6
CA No. 029561 "Regional Economic RTD Policy Through Foresight&Mentoring" Partner

FP5:
SAIL - Thematic Network (IPS-2000-1031) Thematic Network - Strengthening Academic and Industry Links (SAIL) Partner.

Other international Project:
S_JEP 07176-94 1994 - 1997 Creating a Center for Advanced Technologies and a new Master studies curricula for Advanced Technologies in New Materials. Promoter
S_JEP 11284-96 1996 - 1999 Quality Engineering in Design. Development of a new modularised courses in Quality Methodology in five Romanian partner universities, in order to promote, disseminate and encourage the application of quality assurance and management in Romanian industry Promoter
S_JEP 11351-96 1996 - 1999 Qualité Assurance in Non-Destructive Testing partner
CME 02102-96 1996 -1998 Development of a Restructuring Programme for Polytechnic Higher Education, in order to achieve its integration into EU systems.Promoter
S_JEP 12434-97 1997-2000 Network of Departments for U-E-O Cooperation. Development of a National Network of university departments between 15 participating Romanian Universities for co-operation with enterprises and organizations, in view to improve and further develop the practical training of students, continuing education capacities and technological co-operation. Partner
CME 03526-97 1998-2000 The Correlation Strategy of the Tempus and Leonardo da Vinci Programs in University-Enterprise Cooperation and Development of Necessary Structures. Promoter
AC_JEP 13578-98 1998-2001 Network of Leading Centers of Continuing Education for Industry. Partner
IB_JEP-14219-1999 1999-2002Development of Continuing Training Canter for Romanian Prosecutors on the fights against new forms of criminality. Partner
Interchange -1997 Placement of Spanish students in Romanian enterprises Spain
Interface (F/97/1/22405): Creating a structure for the cooperation between universities and enterprises Partner
WIDEN (E/97/1/21501): Expertise exchange and training modules development for the management of European projects Partner
MIDAS Training modules development for the Internet based self-training Partner
Family SME (E/97/2/01055) Training modules on Internet, concerning SME management and development. Partner
(E/97/2/00886) Training and consultancy program for SME tele-workers Fortissime.Partner (RO/97/2/00713) Training of trainers for furnishing industry.Geotec. Pratner
(I/97/2/00258) Training system for environmental geo-technicians.Environment. Partner
(B/98/2/05026/PI/II.1.1.a/CONT)Development of a software, dedicated to SMEs, for the self-evaluation of the environmental management.Media Package II. Partner
(A/98/1/50064/PI/III.3.a/FPC) Multiplier project concerning EU-related topics presentation materials BWL Netzwerk. Partner (D/98/2/05242/PI/III./I.1.c/Cont)Production of a CD-ROM about Business - Administrative Networks within a company. Athenea. Promoter (E/98/1/61313/PI/I.1.1.d/CONT) New employment related to Internet. Partener
(RO/99/1/083611/P1/I.1.1.e/FPC) Projet européen de formation professionnelle pour la reconversion des personnes disponibilisés des zones minières, dans des secteurs porteurs d'emploi. IntraSee.Partner (CY/99/2/09167/PI/II.1.1.b/FPC) Development of a training module for distance education on oil industry. CD- Rom creation TQM . Partner(E/99/2/011072/PI/II.1.1.c/FPI) Strategy of Total Quality Management in Education Organizations TES. Partner
I-(00-BF-PP-120788) Set-up of a portal for distance learning in teleworking
Autoqualité - (RO/01/B/P/PP/-141047)L'assurance de la Qualité Totale dans les entreprises européennes d'ameublement par la formation des ouvriers a l'Auto Qualité. PartnerProgramme Socrates-Comenius A. 3.1 Project VALERI Europe-Focused Teachers & Directors Training through New Technologies in Total Quality Management. Partner

Dr. Victor Babes Foundation

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *choose*
Oficial contact person of the "centre", Name: *Dr Apostol Iuliana*
Position (function): *Coordinator of research department*
E-mail: *centru@cdt-babes.ro*
Phone: *0213229250: 0213231488: 0213231489*
Fax: *0213229251*
Web page: *www.cdt-babes.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
Medical Research Specialists for Clinicals Trials
(12 Physicians and 15 Nurses)
Economists and Marketing Specialists (5 persons)
PR Department qualified for signing partnerships with Romanian public and non-government medical institutions (2 persons)

Relevant equipments:
Clinical Laboratory:Hematology, Clinical Biochemistry, Clinical Immunology , Molecular biology techniques, Hormones Tumor Markers
Microbiology, Bacterilology, Viral markers, Parasitology,Tropical Diseases, Cytodiagnosis Laboratory-Pathology Department,

Investigations: Radiology, Ultrasound (General, cardiac, Ob. Gyn.), Functional respiratory tests (Spirometry), Computerized & Exercise E.K.G, Computerized EEG, Audiometric Testing and Implants Computerized Perimetry, Colposcopy, Orthopedic therapeutic LASER

Additional Activities: Kinetotherapy, Physiotherapy, Psychology, Medical and Recuperatory Gymnastics.

Entirely computerized Patient Data Base Network
Conference Room
Five Ambulance cars for emergencies
Internal wards with excellent *** facilities
Satellite connections with other Universities (Italy, Germany)

Scientific and technological services provided:

FP6:

FP5:

Other international Project:
1. PACARO - Palliative Care in Romania, Matra - Embassy of The Netherlands, since 2002
2. A new model of health care for the elderly, PHARE Program, February - March 2002

3. Initiation of a Geriatric Rehabilitation Programme for Elderly People from Bucharest, PHARE Program, January - February 2004

STRICTSENS - SOFT MAGNETIC and MAGNETOSTRICTIVE MATERIALS FOR SENSORS GROUP

Independent centre: *No*
Parent Organisation: *"Al.I. Cuza" University, Faculty of Physics*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Associate Professor Ovidiu CALTUN*
Position (function): *Director STRICTSENS*
E-mail: *CALTUN@UAIC.RO*
Phone: *+(40) 232 201176*
Fax: *+(40) 232 201205*
Web page: *http://stoner.phys.uaic.ro/projects/ceex/mastrich.html*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:

Human resources and competence description:
Groups: Magnetism; Dielectrics; Modeling&Simulation; Plasma physics
Staff:6 professors, 8 postdocs&researches, 8 Ph.D. students, 8 M.Sc. students, 4 technical staff
Presentation groups: Magnetism and Modeling&Simulation

Relevant equipments:
Equipment, computing, software, other facilities:
• AGM magnetometer (10 nemu sensitivity, 0.1 s per measurement, 10K-1000K temperature range, 1.4 T max. field) – best suited for the study of hysteretic processes (FORC and SORC measurement)
• High frequency measurements (up to 50GHz) – to be installed until the end of the year
• 200 processors computer cluster – to be installed until the end of the year
• SUN Blade workstation – 10GB memory, COMSOL (finite element software), cluster of 20 processors
• Software for micromagnetic simulations, Ising, Metropolis-Monte-Carlo, Preisach, Jiles, other models

Scientific and technological services provided:
Synthesis of soft magnetic materials

FP6:
UAIC - CARPATH is partner in the project:
Molecular Approach to Nanomagnets and Multifunctional Materials MAGMANet (2005-2009) –
Network of Excellence – FP6

FP5:

Other international Project:

INTERFACES-TRIBOCORROSION AND ELECTROCHEMICAL SYSTEMS Laboratory

Independent centre: *No*
Parent Organisation: *Dunarea de Jos University of Galati, Metallurgy and Materials Science*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr BENEA LIDIA*
Position (function): *Assoc. Prof.*
E-mail: *Lidia.Benea@ugal.ro*
Phone: *+40 744 216277*
Fax: *+40 236 461353*
Web page: *www.ugal.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Basic Research

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:
1) FP6: Tribocorrosion and bio-tribocorrosion: Turning material degradation into a material protection. TRIBOBIOCORR. NETWORK OF EXCELLENCE. PARTNER.
Ranking List, without founding

2) FP6: Functionally surfaces by composite coatings deposition using micro and nano sized particles in metal matrices - Roll of biofilm formation in biotribocorrosion and bioerosion. SMESAFETYMILE. NETWORK OF EXCELLENCE. Partner.
Ranking List, without founding

FP5:
FP5: Emission Reduction from engines and transmission substituting harmful additives in biolubricatns by triboreactive materialsEREBIO. 2001-2006.
Associate Partner.

Other international Project:
1. COST D19 CHEMISTRY: Chemical functionality specific to the nanometer scale.
Member of Management Committee and Project Manager
Project: Nanostructured composite coatings obtained by electrodeposition - processing and properties characterisation.
Founding ESF_COST_EU.
2003-2007.

2. COST 532-TRIBOSCIENCE AND TRIBOTECHNOLOGY;
Project Manager: Project M1 title: Nano-structured composite coatings obtained by electrodeposition to be used in tribocorrosion systems: processing and properties investigation; WG3 TRIBOCHEMISTRY. Founding ESF_COST_EU.
2003-2007.

3. COST 533 Materials - Materials for Improved Wear Resistance of Total Artificial Joints. Member of Management Committee: Lidia Benea. Founding ESF_COST_EU. 2004-2008

4. COST D33-Chemistry - Nanoscale Electrochemical and Bio-Processes at Solid-Aqueous Interfaces of Industrial Materials. Member of Management Committee and Vice Chair of COST Action: Lidia Benea. Founding ESF_COST_EU. 2005-2009.

5. COST 636-Environment: XENOBIOTICS IN THE URBAN WATER CYCLE. Member of Management Committee: Lidia Benea. Founding ESF_COST_EU. 2006-2009.

6. COST 520 – Materials - BIOFOULING AND MATERIALS. Member of Management Committee and Project Manager: Lidia Benea. Founding ESF_COST_EU. 1999-2002.

7. COST 521 – Materials, CORROSION OF STEEL IN REINFORCED STRUCTURES. Member of Management Committee and Project Manager: Lidia Benea. Founding ESF_COST_EU. 1998-2002.

Laboratory of Microsystems for biomedical and environment applications

Independent centre: *No*
Parent Organisation: *IMT-Bucharest*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Carmen Moldovan*
Position (function): *Head of Department*
E-mail: *cmoldovan@imt.ro*
Phone: *+40214908412*
Fax: *+40214908238*
Web page: *www.imt.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)
- Security and Space

Interest in technological platforms:
- EUROPEAN NANOELECTRONICS INITIATIVE ADVISORY COUNCIL (ENIAC)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)

Human resources and competence description:
The research group has competences in Microstructures and microsytems for sensing and biomedical applications: sensors for combustive gas detection; acceleration microtransducers for automotive applications; microsystems for monitoring the electrical activity of tissues and cells; concentration vapour sensors; pressure sensors; biosensors.

Relevant equipments:
Clean room class 100, microtechnology for silicon wafer and masks processing

Scientific and technological services provided:
Simulation and design for microsensors, bulk and surface micromachining, glass and silicon micromaching, simulation and design of surface functionalization, biomaterials deposition and characterization

FP6:
Multi Materials Micro Manufacture: Technologies and Applications (4M), NoE, 2004-2008;
Development of a toxin screening multi-parameter on-line biochip system (ToxiChip), STREP, 2006-2009;
Multi-domain platforms for integrated micro-nano technology systems – Service Action (INTERGRAMplus), IP, 2006-2008

FP5:
Training by reserch for System on chip design, REASON, 2002-2005

Other international Project:
MINAEAST-NET, FP6, SSA, 2004-2006;
Europractice, FP5, 2003-2005;
NEXUSPLUS, FP6, 2004-2008;
BRIDGE, CA, FP6, 2004-2006

Research Centre for Plant Product Chemistry and Biochemistry

Independent centre: *No*
Parent Organisation: *Universitatea de Stiinte Agricole si Medicina Veterinara Cluj-Napoca*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Carmen SOCACIU*
Position (function): *Head of Centre*
E-mail: *csocaciu@usamvcluj.ro*
Phone: *+40 264 595825*
Fax: *+ 40 264 595825*
Web page: *www.usamvcluj.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Basic Research

Interest in technological platforms:
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- PLANTS FOR THE FUTURE
- INNOVATIVE MEDICINES FOR EUROPE

Human resources and competence description:
The research group (Plant Product Researcg Center PPRC)is included in the department of Chemistry and Biochemistry and benefit of experienced humean resources (16 members). PPRC has four categories of members : 5 PhD teaching staff with research experience , 7 full time PhD students and 4 part time PhD students (with teaching responsibilities, members of the department) as well master students and diploma students.
The competence of the group is

Relevant equipments:
Infrastructure and equipments
• 5 research laboratories specialized for plant extracts, chromatography (HPLC-DAD, GC-FID), cell cultures and cellular biochemistry , evaluation of genotoxicity and mutagenicity
• equipments adapted to the field: extractors, magnetic stirrers, Rotavapors, ultrasonicators, spectrophotometer UV-Vis (Jasco, 2004, centrifuges, CO2-incubator for cell cultures, 2 laminary flow rooms, etc

Scientific and technological services provided:
The research centre PPRC offers scientific services via its laboratory for agrifood analysis, AGRIAL. The services are provided to companies, SMEs, other research centres and universities.

FP6:
QUALIJUICE Cooperative Research Project, COLL-CT-2005-012461 “Quality assessment and development of an early warning system for microbial contaminations for the European Juice industry” coordinated by TTZ Bremerhaven (Kobek Igor), PPRC as partner/Socaciu C., 2005-2008

HELICAS COLL-CT-2005-017992.Collaborative Research project
"Innovative utilization strategies for sunflower biomass"/ PPRC partner/C.Socaciu, 2005-2008

FP5:
FP5 Exploratory award “Innovative products obtained from fruits of Seabuckthorn (SB)” coordinator TTZ Bremerhaven (A.Noke) /PPRC partner/C.Socaciu, 2000-2001

FP5 CRAFT G5ST-CT-2002-50352
SEABUCK “Innovative products obtained from fruits of Seabuckthorn (SB)” PPRC as partner (Socaciu

C.)2003-2005

Other international Project:
NATO Res. Project Ref.HTECH.CRG. 973192, Basic methods for the evaluation of carotenoids in natural matrices, coord. Diehl H., Univ.Bremen Germany, PPRC partner/C.Socaciu,1998-2000

NATO Res. Project
Ref.LST.CLG. 977807, Extraction and Incorporation procedures for Carotenoid Pigments in Different Food and Drug matrices, coord. Diehl H., Univ.Bremen Germany, PPRC partner/C.Socaciu,2001-2004

EU- COST Action nr. 926 “Impact of new technologies on the health benefits and safety of bioactive plant products” coordinated J. Gee, IFR, UK,/ USAMV responsible/ C.Socaciu=RO coordinator of the Management Committee, 2004-2008
ERASMUS Thematic Network 104934-CP-3- 2004- 1- PT
ERASMUS –TN "ISEKI – Food - Integrating Safety and Environ.Knowledge Into Food Studies towards EU Sustainable Development”, coord. Univ. Católica Porto, Portugal/ PPRC partner/C.Socaciu,
2004-2008

INSTITUTE OF BIOLOGY AND ANIMAL NUTRITION

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Catalin DRAGOMIR*
Position (function): *Secretary of Science*
E-mail: *drg_catalin@yahoo.com*
Phone: *0040-21-2662961*
Fax: *0040-21-2224410*
Web page: *www.ibna.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
Of our staff, 60 persons are involved in research activities, of which 40 graduates from various faculties (biology, animal production, biochemistry, chemistry, veterinary medicine, agronomy, etc.). Of these, 20 have a PhD degree and 7 are preparing their PhD thesis. Of our scientific staff, 5-10% are constantly in medium- and long-term specializations abroad.

Relevant equipments:
The institute has one of the best infrastructures among research institutions in Romanian agriculture. The main equipment of our chemistry department consists in GC's, HPLC, GCMS, Kjeltec, Fibertec, Soxtec, amino acid analyzer, ICP spectrometer, other spectrometers, etc. The institute has good facilities for trials on animal physiology (digestibility stands / cages; metabolic chambers, rooms with controlled climate – for the main farm animal categories, including large ruminants, fistulated animals, in vitro equipment). We also have an experimental farm of about 400 cattle, 2000 pigs, 150 sheep and 15000 poultry. The 200 hectares of irrigable arable land support the trials on forages and provide experimental feeds for ruminants. We have two large-capacity feed mills for all farm animal species (serving both for research and extension purposes). The institute has very good facilities for extension / training activities and for organizing professional events (multimedia amphitheater, meeting halls, good level of IT equipment, permanent Internet access). It also has a strong national network of beneficiaries (SME's) due to its traditional position as leader in animal nutrition.

Scientific and technological services provided:
The institute mainly performs research-development projects gained by national and international competitions. Besides, it runs research contracts with national and international companies by testing their products. It also performs chemical and microbiological analyses for third parties and provides consultancy services. The extension activity of the institute is also intensive.

FP6:
Development of Natural Alternatives to Anti-microbials for The Control of Pig Health and Promotion of Performance (FEED FOR PIG HEALTH - priority V, STREP project): 2004-2007
Support to animal science organizations from central Europe Candidate Countries (CEC Animal Science - prority V, SSA project): 2004-2005

FP5:

Other international Project:

PROCEMA GEOLOGI Ltd

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Mrs CETEAN VALENTINA MARIA*
Position (function): *employer*
E-mail: *georock@rdslink.ro*
Phone: *+40-21-2229669*
Fax: *+40-21-2229669*
Web page: *www.procema.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
PROCEMA GEOLOGI - Geological Research and Design and Testing Laboratory is an independent department of PROCEMA and have 5 permanently employments and other research partners. The department carries out activities and renders specialized services surveys from more then 200 deposits for raw materials that can be used in the industry of building, technological processes in the building materials industry and studies of environmental impact. It holds the Secretariat of Romanian Committee for Standardization “Natural Stone” The department possesses an important Romanian data bank in the field of building materials and has contacts with many stone producers in Romania.

Relevant equipments:
- Apparatus and equipments for stones laboratory analyses in conformity with European regulations and standards from TC 246 - Natural Stone;
- Modern computers, peripheral equipments and digital equipment for current activity;
- Specialized equipment and software for geological activity;
- Equipments and specialized software for geodesic /topographic activity.

Scientific and technological services provided:
- Geological researches /studies/ projects/ documentations; feasibility studies and development planning;
- implementation of environmental system management, the administration, recycling and capitalization of technological wastes, the adoption of solutions to integrate in habitat of areas which was affected by raw materials exploitation/ processing;
- Elaboration of the strategies for short /long period in the stone domain;
- Laboratory tests for materials and products;
- Technical agreements for materials and products, as well as technical regulations for construction;
Translation, harmonization and applying of European standards in the stone sector;
- Assistance or draw out the professional or firm standards or technical specifications for the building materials.

FP6:
Re-Engineering of Natural Stone Production Chain Through Knowledge Based Processes, Eco-Innovation and New Organisational Paradigms (I-STONE)
2005 - 2008

FP5:

Other international Project:

INFRMB

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *choose Ciobanu Liana*
Position (function):
E-mail: *lianaciob@yahoo.com*
Phone: *2115349*
Fax: *2115349*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
INRMFB include:
- 3 Clinici Medicale de Recuperare (I, II, III)
- Sectie de Cercetare a Factorilor Naturali Terapeutici
- Sectie de Cercetare Fiziologie Normala si Patologica
Sectorul Cercetare - Cuantificarea si monitorizarea efectului balnear al factorilor terapeutici naturali, ape minerale, namoluri terapeutice, bioclimat, etc.

Relevant equipments:

Scientific and technological services provided:
Analize fizico-chimice, microbiologice, biologice, bioclimatice a factorilor terapeutici naturali din statiunile balneoclimaterice din Romania

FP6:

FP5:

Other international Project:

Laboratory 150 Low Dimensional System

Independent centre: *No*
Parent Organisation: *National Institute of Materials Physics Bucharest-Magurele*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Ciurea Magdalena Lidia*
Position (function): *Head of Laboratory 150 Low Dimensional System*
E-mail: *ciurea@infim.ro*
Phone:
Fax:
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)
- Basic Research

Interest in technological platforms:
- EUROPEAN NANOELECTRONICS INITIATIVE ADVISORY COUNCIL (ENIAC)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- MANUFUTURE - Future Manufacturing Technologies

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

Lasers Department

Independent centre: *No*
Parent Organisation: *National Institute for Lasers, Plasma and Radiation Physics*
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Dr Constantin Fenic*
Position (function): *Senior Scientist*
E-mail: *fenic@ifin.nipne.ro*
Phone: *0040 21 4575066*
Fax: *0040 21 4575066*
Web page: *www.inflpr.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
35 senior scientists from 85 qualified research staff.
Optics and laser metrology. Laser system design.
Optoelectronics. Nonlinear-optics. Pulsed laser deposition.

Relevant equipments:
Solid state, CO2 and excimer lasers. Laser power and energy meters. Laser beam analyzers. UV, VIS and IR spectrometer. Dielectric layer deposition devices for optical components. Nd:YAG and excimer pulsed laser deposition devices. CO2 laser systems for medical applications and pollution control. Nd:YAG laser device for surface cleaning. Nanopowder excimer laser system. Laser metrology laboratory. Glass workshop for optical components.

Scientific and technological services provided:
Consultancy and technical assistance in laser systems for industrial, medical and scientific applications. Optical components and dielectric layers. Surface laser cleaning for artwork restoration. Optical and laser metrology. Laser system design.

FP6:
PC6. EURATOM
1. Simulation of the VUV spectra from the reversed field pinch Extrap (Physics R&D needs for the EU fusion program, macro task 3-3.6)
NUC-INT-FUS; 1999-2007. Continues from PC5.
2. Reconciliation between the two methods (visible bremsstrahllung and change exchange recombination of measuring Zeff on JET and technique for keeping both diagnostics synchronized (macro task 2-2.6: ITER diagnostic system related R&D); 2002-2007. Continues from PC5.

FP5:
PC5
1. Laser multitask non-destructive technology in conservation diagnostic procedures. EVK4-2001-00279; LASEACT. 2003-2005
2. Surface improvement of metal implants: new preparation methods and new materials.
G5RD-Ct-2001-00423; SIMI. 2001-2004
3. Feromagnetic semiconductors and novel magnetic-semiconductor heterostructure for improved knowledge on spintronisc. 2001-2004
G5RD-CT-2001-00535; FENIKS
4. Nanostructure photonic sensors.
IST 2001-39112; NANOPHOS. 2002-2005

5. Piezoelectric sensor network for biomolecular interactions and gas monitoring.
EC IST 2001-33326; PISSARO. 2002-2004
6. Underlying technologies.
EURATOM ERB 5005 CT 990101. 2000 – 2004
7. Technology tasks.
EURATOM ERB 5005 CT 990101. 2003 -2004

Other international Project:
EUREKA
1. EUREKA E!2542; RENOVA-LASER. National funding.
Laser renovation of monuments and artworks. 2002-2004
2. EUREKA E!2841; ADVANCED PLD. National funding
Pulsed laser deposition: a new technique for coating sheet materials and three dimensional industrial components at low temperature. 2003-2005
3. EUREKA E!1769; SUCLAT. National funding.
Surface cleaning by laser technology. 2002-2005

NATO PST.CLG/979619. NATO funding.
Pulsed laser deposition with femtosecond and nanosecond lasers ablation of thin ferroelectric films. 2003-2004

PHARE
1. Enhanced Free Running Laser device for Surface Cleaning.
PHARE TTQM; RO9602-02-02-L024; 2000
2. PHARE - PROGRES RO 9701.01/L011/050. 1999 - 2000

Leonadro da Vinci
1. RO/1999/PL83709/I.1.2.c. 1999 – 2000
2. D/99/2/09/194/PI/II.I.1.b/FPC . 1999-2001

Comenius
110157-CP-1-2003-PT-COMENIUS-C3. 2003-2006

Elementary Processes in Plasma and Applications

Independent centre: *No*
Parent Organisation: *National Institute for Lasers, Plasma and Radiation Physics*
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Dr Cristian P. Lungu*
Position (function): *Senior Scientific Researcher, Group Leader*
E-mail: *lungu@alpha2.infim.ro, cplungu@rdslink.ro*
Phone: *4574558/1358, 0788385420*
Fax: *4574468*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
10 scientific researchers
3 technical staff

Relevant equipments:
Vacuum equipment (4 units) form small (0.003 cubic m)to large size (1 cubic m) ready for nanostructured depositions using the original technology TVA (thermionic vacuum arc)
Equipment for testing and study of plasma displays.
Spectral analyzers (optical multichannel analizer, spectrometers)
In situ measurement device for thickness (accuracy: 0.1 nm)
Oscilloscope Hameg
Optical interferometer for thickness measurements,
DC, RF, AC power supplies
Devices for electrical parameters measuring and monitoring
PC working stations (8 units)

Scientific and technological services provided:
Training in vacuum devices and technologies

FP6:

FP5:

Other international Project:

Plasma Surface Engineering Laboratory

Independent centre: *No*
Parent Organisation: *National Institute for Laser, Plasma and Radiation Physics*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Technological development*
Oficial contact person of the "centre", Name: *Dr Cristian RUSET*
Position (function): *Head of Department*
E-mail: *ruset@infim.ro*
Phone: *+4021 457 4490*
Fax: *+4021 457 4243*
Web page: *www.inflpr.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Nuclear Research

Interest in technological platforms:

Human resources and competence description:
Personnel:7 members of which 2 senior scientists, 2 engineeris and 3 techicians.
Expertise: plasma nitriding and PVD coating, technology and equipment; nanostructured coatings

Relevant equipments:
-Plasma nitriding unit of 70 kW
-Two coating equipment based on Combined Magnetron Sputtering and Ion Implantation, a new deposition method developed in our lab.
-metallographic microscopes and hardness testers
-residual gas analyser
-electronic and mechanical workshops

Scientific and technological services provided:
-plasma nitriding treatments for industrial components
-hard coating deposition (small scale)
-consultancy in the field of surface engineering

FP6:
1. "Increased Service Liftime of Forging Tools by Combined Surface Traeatments - ForBeST", PC6-CRAFT (Co-operative Research Project), Duration 2004-2006, INFLPR was partner in the Project
2. "R&D on W coating on CFC and bulk W tiles development in support of the ITER-like Wall project", PC6-EURATOM, Duration: 2005-2006
The activities were carried out through the EURATOM Association MEdC.
3. "Manufacturing and testing of W-coated CFC tiles for installation in JET for the ITER-like Wall project" PC6-EURATOM, Duration: 2006-2008 The activities are carried out through the EURATOM Association MEdC.

FP5:

Other international Project:
Export contracts:
1. The development of a plasma nitriding equipment, METALTECH-Ltd, Consett, England 1997-2000
2. Manufacturing and delivery of components for a plasma focus equipment, The University of Zimbabwe, Harare, Zimbabwe, 2001
3. Design and manufacture of a Multiple Hollow Cathode Reactor, ATLANPOLE, Nantes, France, 2006

S.C. UZINSIDER ENGINEERING S.A. Galati

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Technological development*
Oficial contact person of the "centre", Name: *choose Dan Teodor Levcovici*
Position (function): *Deputy Executive Director*
E-mail: *dan.levcovici@uzineng.ro*
Phone: *0722659334*
Fax: *0236449678*
Web page: *uzineng.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)

Interest in technological platforms:

Human resources and competence description:
6 scientific researchers (3 doctor engineers) with a long proficiency in the fields of materials science and surface modification technologies.

Relevant equipments:
- CO_2 continuous wave laser beam with a power of 1400 W coupled with a working table in x-y-z coordinates digitally controlled;
- emission spectrometer for chemical analysis on solid specimens;
- optical microscope with x2000 magnification;
- Vikers micro-hardness;
- X - ray diffractometer;
- instalation having sphere-plane point contact with sliding dry friction.

Scientific and technological services provided:
- studies and works of scientific research focusing on new technologies in the field of metallic materials manufacture and use;
- authorised services in the field of technical surveys, laboratory analyses, test and non-destructive examinations;
- designing and performs designing and technological development works.

FP6:

FP5:

Other international Project:

Lab. for Micro and Nano Photonics

Independent centre: *No*
Parent Organisation: *National Institute for R@D in MicrotechnologiesI-MT-Bucharest*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Dana Cristea*
Position (function): *haed of laboratory*
E-mail: *danac@imt.ro*
Phone: *+40214908238*
Fax: *+40214908238*
Web page: *www.imt.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
The team
• 5 senior researchers (with PhD in optoelectronics, materials for optoelectronics, microsytems, physics, chemistry)
• 1 PhD student (with background both in physics and photonics),
• 2 Romanian early stage researchers (1 engineer and 1 physicists), and an
• 1 early stage researchers from Moldavia (trained in the frame of the ASSEMIC project).

• Expertize in:
– advanced micro-photonic devices and MOEMS (design, modeling and manufacturing, development of new design tools, new mixed technologies and advanced materials for micro and nano- photonic structures)

– optoelectronic devices and integrated circuits - research and development
• design and modelling of microphotonic photonic devices, optoelectronic integrated circuits, sensors with optical read-out
• silicon technology
• polymer technology – for integrated optics, chemical sensing
• Sol gel technology
• integration of photonic devices in various materials: semiconductors, dielectrics, hybrids, organics (combination of silicon and non-silicon technologies)
• development of chemical and biosensors with optical detection

Relevant equipments:
Software:
OptiFDTD-cad (v. 2004),time-domain simulation software for advanced passive and active photonics components;
HS_Design;semiconductor heterostructure modeling software -

Characterization
spectrophotometer; experimental set-up for optoelectric characterization in UV-VIS-IR spectral range of ptoelectronic and photonic circuits; spectroelipsometer

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

DDS DIAGNOSTIC SRL

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Production*
Oficial contact person of the "centre", Name: *Mrs Dana Stan*
Position (function): *General Manager*
E-mail: *ddsdiagnostic@yahoo.com*
Phone: *+40-021-4104009*
Fax: *+40-021-4104009*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Basic Research

Interest in technological platforms:

Human resources and competence description:
Prof.Ph.D.Ion Baciu - chemist
Carmen Mihailescu - chemist
Codruta Paraschivescu - chemist
Mihaela Zaharia - chemist
Adriana Ilie - technologist
Dan Hristescu - electronist

Relevant equipments:
Equipments for electrophesis kits production

Scientific and technological services provided:
Research activity in the chemistry and clinical diagnostic field

FP6:

FP5:

Other international Project:

Computer Aided Electrical Engineering Center

Independent centre: *No*
Parent Organisation: *Politehnica University of Bucharest*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Daniel Ioan*
Position (function): *CIEAC director*
E-mail: *lmn@lmn.pub.ro*
Phone: *+4021 316 95 70*
Fax: *+4021 3169571*
Web page: *www.lmn.pub.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:

Human resources and competence description:
The Numerical Methods Laboratory (LMN) belongs to the School and the Department of Electrical Engineering of PUB and it is affiliated from the research point of view to CIEAC. It was established in 1982 as an advanced research and higher education unit, aiming to promote the use of information technology in electrical engineering areas at world quality level. Expertise areas of LMN cover: computational electromagnetics, numerical techniques, coupled field-circuit problems, optimization and inverse problems, soft computing, EDA, non-destructive evaluation, computer aided education. Due to its multi- and inter-disciplinary approach, LMN is one of the few research groups with competencies in both computational electromagnetics as well as in the circuit and systems modeling and simulation. Only in the last years, the LMN group published more than 20 papers related to coupled field - circuit problems and automatic extraction of compact circuit models for passive devices at high frequency. LMN has a wide experience in developing hardware validated EDA tools for effective EM modeling, based on innovative discretisation techniques of Maxwell equations with accuracy control, such as dFIT (dual Finite Integrals Techniques), the basic technique of the original ALROM modeling strategy. LMN is one of the first promoters of ROM techniques in computational electromagnetics, including nonlinear models. An evaluation platform for Reduced Order Models methods named ROM Work Bench was developed within Codestar project at LMN. Hybrid deterministic-stochastic (simulated annealing, genetic, evolutionary algorithms, "intelligent particle swarm") approaches were developed for optimization and inverse EM problems. The research results are rated as excellent by the academic community of SCEE (by the way, the next SCEE 2006 event will be held in Romania), as well as IEEE CEFC, ENDE and Compumag.

Relevant equipments:
The host institution and particularly the support research groups provide our early stage researchers access to excellent computing facilities. These include our HPC system - a Sun Enreprise 10k server with 32 processors Shared Memory System - Symmetric Multi-Processing - SMP architecture, providing 22 GFlop/s with 16 GB RAM and 527 GB Storage Array. Giga Ethernet Fibre Optic connects it to the terminals in LMN. Software resources include: Solaris OS, Sun Forte Compilers for C, C++ and Fortran, Sun Performance Library, NAG SMP Library, Matlab with all toolboxes, ANSYS multiphysics, PetSc, NAG, MPI, OpenGL and other software tools from public domain. The ESRs have access also to a Local Area Network of high-end PCs, the first Fast Ethernet LAN installed in PUB, as well as Sun, HP, and SGI workstations. A distributed system, cluster of PCs (Beowulf type with minim 32 nodes Intel CPU at 3GHz, 1GB RAM and a low latency interconnect at minim 1 Gbps) will be installed in PUB-LMN within ToK-4nEDA project. A valuable resource of our University is the fast speed broad band Internet access. The main node of the national academic network (RoEduNet) is located in our campus. When they need it, scientists have access to more powerful computing resources using the grid technology.

Scientific and technological services provided:
LMN and CIEAC from PUB have an excellent record in the management of international research and training projects, totaling budgets over 6 million Euro (an annual average of 500 000 Euro). A list of relevant

projects for present proposal contains: " TEMPUS JEP/JEN/2717 - Postgraduate studies in Computer Aided Electrical Engineering; " TEMPUS JEP 9122 - Use of IT in AV communication; " PECO/CAEE93 - Organization of the International Conference on Computer Aided Education of Engineers; " INCO/COPERNICUS/Euroeast - Extension of EUROCHIP services to Eastern European countries " INCOCodestar/Manodet - Non-destructive testing based on a new principle to measure magnetic field; " FP5/IST/Codestar Compact modeling of on-chip passive structures at high frequencies; " ENDE - El-mg. Non-Destructive Evaluation with Japan Society for Applied Electromagnetics; " RJJSAEM - The first two Romania-Japan Joint Seminars in Applied Electromagnetics and Mechanics.

FP6:

FP6- STREP Chameleon RF Comprehensive and Highly Accurate Models for EM Effects of Nano-blocks RFICs, partner, start year 2006, end year 2008

FP6- HRM MC RTN Comson - Coupled and Multiscale Simulation and Optimisation in Nanoelectronics, start year 2006, end year 2008

FP6- HRM MC EST - EST3 - Early Stage Training in an Eastern European Site with Tradition SCEE, start year 2006, end year 2008

FP6- HRM MC TOKDEV 4nEDA High Performance Computing Knowledge for nano-Electronic Design Automation

FP6- HRM MC SCF SCEE How to start successful career in the interdisciplinary area of Scientific Computing Electrical Engineering SCEE, start year 2006, end year 2008

FP6- HRM-MC TOK IAP ETASIP -Electromagnetic and Thermal Analysis of Systems in Package, start year 2006, end year 2008

FP5:

FP5/IST/CODESTAR - Compact modelling of on-chip passive structures at high frequency, start year 2001, end year 2004, partner

Other international Project:

Bio-Consult Service s.r.l.

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *choose*
Oficial contact person of the "centre", Name: *Mrs Diana Szedlacsek*
Position (function): *Administrator*
E-mail: *dszedlacsek@pcnet.ro*
Phone: *0040-21-211-2952*
Fax:
Web page: *www.sanatate.info*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
microenterprise, with only 3 staff members. Competence in project management, research and development, network building, consultancy in health domain. Outsourcing-type activity, therefore no direct participation in projects can be mentioned.

Relevant equipments:

Scientific and technological services provided:

FP6:
NA

FP5:
NA

Other international Project:
Outsourcing-type activity, therefore no direct participation in project can be mentioned.

Research Centre in Sheet Metal Forming (CERTETA)

Independent centre: *No*
Parent Organisation: *Technical University of Cluj Napoca*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Dorel BANABIC*
Position (function): *Director*
E-mail: *banabic@tcm.utcluj.ro*
Phone: *+40 264 401733*
Fax: *+40 264 415603*
Web page: *http://zeus.east.utcluj.ro/mb/tcm/banabic/*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Transport (including Aeronautics)

Interest in technological platforms:

Human resources and competence description:
The team involved in this research consists of six persons. The main skils are in:
- simulation of the metal forming processes using commercial codes (ABAQUS, AUTOFORM;
- implementation of the constitutive laws in FE codes;
- modelling of metal forming processes;
- modelling of anisotropic material behaviour;
- modelling of forming limit diagrams;
- CAD modelling using CATIA and Solid Works;
- designing of the forming technologies.

Relevant equipments:
Several facilities deserve the experimental research in the laboratory. The basic uniaxial mechanical tests are performed using either an Instron testing machine of 250kN, or the Tinius-Olsen testing machine of 100kN. Deep-drawing and stretching through a circular active plate (with punches spherical or not) can be performed using a testing machine designed and manufactured in the laboratory. Although small, this hydraulicaly-powered machine allows a vibrating punch force and is used in sheet metal formability studies as well as conventional drawing experiments.
Other devices have been designed and realised in the laboratory, to study the optimization and control of the blank-holding force during deep-drawing.
Computing is also part of the current activity in the laboratory. Our choice was PCs, because of their much lower upgrade costs and availability of most scientific software on these platforms. A powerfull PC is used for finite element simulations using Deform3D, Autoform and other commercial software, while the department's computers park is available for other current research tasks.

Scientific and technological services provided:
- developing of materials constitutive laws;
- implementing of constitutive laws in FE codes;
- simulation and modeling of forming processes;
- experimental testing for identification of mechanical parameters;
- testing technics for validation of simalations.

FP6:
Virtual Inteligent Forging, VIF, CA, 2004-2008, parner

FP5:
1. Formability of new metallic materials, FOMM, 1977-2000, associate partner of Stuttgart University, Germany.
2. Through-process modelling of forming and formability of aluminium sheets and profiles,VIRFORM,2000-2004, associate partener of Stuttgart University, Germany.

Other international Project:
1. Sheet metal formability for special metal forming processes,Financed by Humboldt Foundation, Germany, 2005-2008, Coordinator
2. Improvement of performances of formability models for sheet metals using new constitutive laws, Financed by Swiss National Science Foundation, Switzerland, 2005-2008, Coordinator
3. Technology Transfer Centre in Metal Forming, SEQUA, Germany, 2005-2008, Coordinator

Cyclotron Laboratory

Independent centre: *No*
Parent Organisation: *National Institute for Nuclear Physics and Engineering - Horia Hulubei*
Position inside parent organisation: *Department of an Institute*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Mr Dorin Dudu*
Position (function): *Head of Cyclotron Laboratory*
E-mail: *ddudu@ifin.nipne.ro*
Phone: *0040 021 4042367*
Fax: *0040 021 4574432*
Web page: *http://www.nipne.ro/*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
5 (five) senior researchers in the field of nuclear physics and applications of accelerated beams. Good skills for elemental and structural analysis using nuclear methods with accelerated light ions (RBS, PIXE, ERDA, PIGE, CPA).

Relevant equipments:
Cyclotron U-120 accelerator and dedicated beam lines with experimental arrangements for particle and radiation spectroscopy.

Scientific and technological services provided:
Scientific and technical assistance for applications using accelerated beams as:
-elemental and structural analysis(RBS, PIXE, ERDA, PIGE, CPA);
-thin and ultrathin layer activation for wear and corrosion measurement;
-production of short lived radioisotopes for scientific and medical use;
- material changes induced by charged particles and fast neutrons irradiation.

FP6:

FP5:

Other international Project:

Center of Microbiology

Independent centre: *No*
Parent Organisation: *Institute of Biology*
Position inside parent organisation: *Department of an Institute*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Dr. Lucia Dumitru*
Position (function): *Head of Center*
E-mail: *lucia.dumitru@ibiol.ro*
Phone: *2219202*
Fax: *2219071*
Web page: *www.ibiol.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Basic Research

Interest in technological platforms:

Human resources and competence description:
28 persons: 18 researchers and 10 technical assistant. Ph.D.- 13; Master students - 3.
Competence in microbiological fields: microbiology of soil and petroleum, biodeterioration, energy from nonconventional sources (hydrogen, methane),bioremediation, extremophilic microorganisms (halophiles,acidophiles): diversity, taxonomy, physiology, biotechnological applications, potential for micro- and nanotechnologies.

Relevant equipments:
Microscope electronique(TEM), PCR, Benchtop centrifuge (Beckman-Coulter),Spectrofotometer UV-VIS,vertical laminar airflow cabinet, shakers,peristaltic pump, freezer (- 80 degree Celsius), thin layer chromatography (TLC), respirometer Clarck, pH-meter, etc.

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

SC IPA CIFATT Craiova, Technology and Business Incubator, Innovation Relay Center (Romanian IRC 4D)

Independent centre: *No*
Parent Organisation: *SC IPA SA (Societate Comerciala pentru Cercetare, Proiectare si Productie de Echipamente si Instalatii de Automatizare)*
Position inside parent organisation: *choose*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Mr Drd. Gabriel Vladut*
Position (function): *Director*
E-mail: *office@ipacv.ro*
Phone: *+40-251-412290*
Fax: *+40-251-418882*
Web page: *www.ipacv.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Transport (including Aeronautics)

Interest in technological platforms:

Human resources and competence description:
IPA Subsidiary from Craiova city has a team of 26 persons, 22 scientific researchers and 4 auxiliary personel. The work in the center is focused on 4 groups of activities:
- applied research through projects under national and international programs
- designing and realization of automation systems “turn-key solutions”
- software applications
- support activities for SMEs such as technology transfer, dissemination of information through several networks (5 networks and about 3000 partners in networks), involvement of SMEs in projects as partners.

Different background formation of the center' personnel (engineers in automation, robotics,IT, electrotechnique, chemistry, energetique, phisiscists, economists) and new skills gained through training courses (Project Management, Technology Transfer, Structural Funds, IPR, Communication and Quality Assurance)allow us to approach different interdisciplinay projects and activities.

Relevant equipments:
Stand for developing of electric driving elements
Computers 20 pieces of high performances and laptops 5 pieces.
Peripheric equipment (printers, scanners, copying machines, camera)
Oscilloscopes
Developing systems with microcontrollers
Testing laboratory Q-test
Equipment for measurements and recording of electrical parameters
Mechanical workshop
Electrical workshop
Electronics workshop
Multimedia monitoring and dispatching laboratory
Laboratory for study and analysis of communication solution
Analyser for exhaust gases (MGT5) and opacimeter (MDO2) - MAHA

Scientific and technological services provided:
- applied research through projects under national and international programs
- designing and realization of automation systems “turn-key solutions”
- software applications

- support activities for SMEs such as technology transfer, dissemination of information through several networks (5 networks and about 3000 partners in networks), involvement of SMEs in projects as partners.

FP6:

1. Romanian Research and Innovation Days - RoDI, IST Net National Network, 2004-2005, Coordinator
2. Increasing the competitiveness of Trans-national Technology Transfer and Innovation in Romania by creating an Innovation Relay Center - Romanian IRC 4D, SSA, IST, 2004-2008, Partner
3. Regional approach towards FP6. Network of contact points in large ACC and Member States - REGinNET, SSA, 2004-2006, Partner
4. Concepts to Reduce Environmental impact and Attain optimal Transport performance by Inland NaviGation - CREATING, STREP, FP6-2002-Transport-1, 2004-2006, Partner
5. Energy Sector Innovation-Financial Network - EIFN, SSA, FP6-2004-INNOV-6, 2005-2008, Partner

FP5:

Other international Project:

1. E-COMMERCE SUPERMARKET SYSTEM - SUM, Program EUREKA, 2005-2006, Partner
2. IT system for activities mamagement and stuff training in public local administration – SIMAP, program USAID - RITI ACCESS, 2004-2005, Coordinator
3. Virtual Resource Center-ViReC, program MINERVA, 2002-2004, Partner

Research and Technology Center for Applied Plant Biotechnology PROPLANTA S.A.Cluj-Napoca

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Technology transfer/Innovation*
Oficial contact person of the "centre", Name: *Dr Dumitru CIUPERCESCU*
Position (function): *manager*
E-mail: *cproplanta@yahoo.com, office@proplanta.ro*
Phone: *+ 40 264 458667*
Fax: *+ 40 264 458667*
Web page: *www.proplanta.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:

Human resources and competence description:
Proplanta is a SME private company (microentreprise) represented by 4 PhD reserchers and 3 other employees (1 biologist, 1 economist and 1 technician). The competences:

1. Agrifood research & applied (bio)technology: elaboration of original and innovative products /extracts from medicinal or aromatic plants.
2. Creation of original bioactive formulations and products with added value, to be used as food supplements, phytocosmetics or food additives/ intermediates.
3. Microencapsulation of bioactive molecules in hydrocolloid and inorganic matrices
4. Valorization of agrifood wastes by extraction of bioactive molecules

Relevant equipments:
Dryers for plants
Homogenizers for fruits and fruit juices
Centrifuges for fruit nectars
Extraction devices
Pasteurization unit
Filters for plant extracts
Water distillation device

Scientific and technological services provided:
Consulting unit for plant biotechnology and agrifood technology

FP6:
FP 6 Food-CT-2005-514049 GRUB's UP: Recycling and upgrading wastyes from Food Production for use within the Food Chain "", 2005-2007

FP5:
FP5 CRAFT G5ST-CT-2002-50352, "SEABUCK" "Innovative products obtained from fruits of Seabuckthorn (SB)" contractor Proplanta 2003-2005

Other international Project:
EU- COST Action (PHYTOCHEM) 926 "Impact of new technologies on the health benefits and safety of bioactive plant products" (2004-2007)
ERASMUS Thematic Network 104934-CP-3- 2004- 1- PT "ISEKI – Food - Integrating Safety and Environ.Knowledge Into Food Studies towards EU Sustainable Development", coord. Univ. Católica Porto,

Portugal

ERASMUS Thematic Network ISEKI Food 1 and Food2: 104934-CP-3- 2004- 1- PT

Institute for Space Sciences

Independent centre: *No*
Parent Organisation: *National Institute for Laser, Plasma and Radiation Physics*
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Dr Dumitru HASEGAN*
Position (function): *director*
E-mail: *hasegan@venus.nipne.ro*
Phone: *4021 4574471*
Fax: *4021 4574471*
Web page: *http://venus.nipne.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
Total number of employees:
2003 = 89

Field of specialization:

Physics research (High energy physics; Nuclear physics; Plasma physics; Relativity and gravitation; Theoretical physics)
Earth, space and planetary sciences (Astrophysics; Gravity)
Mathematics (Applied mathematics; Mathematical physics)
Aerospace (Ground support systems and equipment; Space technology)
Computer and information technology (Algoriths;Computer communication network; Data and data structure; Image processing; Simulation modeling)
Electrical and electronic research (Electronic instruments and equipment).

• Magnetometry and space plasmas;
• Planetary atmospheres;
• Astrophysics;
• Cosmic rays;
• Gravitation, celestial mechanics and microgravity;
• Space dynamics;
• Space technologies;
• Engineering for space research.
a) On-board data acquisition devices design and manufacturing

Relevant equipments:
Fast computing network, including GRID cluster

Scientific and technological services provided:
- investigation of physical processes in interplanetary media. Correlations with data received from space experiments;
- studies of the elementary processes of interaction between atoms, molecules and radiation, in conditions specific to stellar and planetary atmospheres and interstellar plasma;
- studies on the local and global validity of the kinetic equations for relaxation processes;
- studies of the Cosmic Microwave Background Radiation Anisotropy;
- studies of Extensive Air showers Experiments at Energies greater than 3 TeV;
- dynamical characteristics of cosmic rays in circumterrestrial environment and hazard estimation;
- applications of the theory of categories in gravitation;
- research in gravitation and application to space experiments;
- studies of the electromagnetic waves propagation using data from space missions;

- studies on the structures induced by terrestrial magnetic field in the circumplanetary plasma;
- onboard computing systems for space experiments;
- operating systems for spacecraft microcomputers;
- researches in the field of accelerometric equipment for investigations and monitoring in microgravity conditions.
- magnetic fluid devices and applications

FP6:

FP5:

Other international Project:

1. Projects INTERBALL, EQUATOR-S, FAST and CLUSTER II - Processing and physical interpretation of plasma & field parameter measurements in space experiments # Max Plank Institut für Extraterrestrische Physik, Garching, Germany
2. Space plasma investigation by numerical and experimental analysis (SPLINE)# Institute d'Aeronomie Spatiale, Bruxelles, Belgium
3. Project INTERBALL - Processing and analysis of simultaneous magnetic field measurements. #
- Max Plank Institut für Extraterrestrische Physik, Berlin, Germany
- Karlovo University, Prague, Czech Republic
-Institute of Atmospheric Physics of Czech Academy, Prague, Czech Republic
4. Plasma Processes in the Solar Wind – Magnetosphere – Ionosphere System # Institute of Geophysics and Metereology, Braunschweig, Germany
5. Project NOTTE (Neutrino Oscillation with Telescopes during the Total Eclipse). # Dipartimento di Fisica dell'Universita di Bologna, Italy
6. Project PLANCK (ESA mission)- The cosmic microwave background radiation: Measurements and interpretation. # Istituto di Tecnologie e Studio delle Radiazioni Extraterrestri, Bologna, Italy
7. Quantization of the Systems with Constrains. # Cankaya University, Ankara, Turkey
8. Project MACRO (Monopole, Astrophysics and Cosmic Ray Observatory) # Dipartimento di Fisica dell'Universita, Bologna, Gran Sasso, Italy
9. Mathematical study of some classical and quantum models # Department of Mathematics, University of Cergy Pontoise, Cergy Pontoise, France
10. Agreement for use of the relativistic Heavy Ion Collider (RHIC)# Brookhaven Science Associates, Brookhaven National Laboratory, USA
11. MARUSIA, ALICE and WA98 Projects. Study of nuclear matter excitated in extreme states and antimatter generation.# Joint Institute of Nuclear Research, Dubna, Russia
12. Study of the multiplicity processes in 4p geometry in heavy ion interactions.# Joint Institute of Nuclear Research, Dubna, Russia
13. Investigations of the microstructure of magnetically complex fluid media by means of neutron scattering # Joint Institute of Nuclear Research, Dubna, Russia
14. Project AMS - The construction and research for the AMS (ALPHA MAGNETIC SPECTROMETER) tracker.# Laboratorio per lo Studio degli Effetti delle Radiazioni sui Materiali Speciali (SERMS), Terni, Italy

SC AEROFINA SA

Independent centre: *No*
Parent Organisation: *SC AEROFINA SA*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Technological development*
Oficial contact person of the "centre", Name: *Mr Dumitru TUDORICA*
Position (function): *Reserch Manager*
E-mail: *dtud@aerofina.ro*
Phone: *4021 242 04 23*
Fax: *4021 242 09 12*
Web page: *www.aerofina.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Transport (including Aeronautics)
- Security and Space

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

National Institute for R&D Chemical-Pharmaceutical

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *choose*
Oficial contact person of the "centre", Name: *Mrs Eleonora Gheorghiu*
Position (function): *Senior Scientist Researcher*
E-mail: *nora_gro@yahoo.co.uk*
Phone: *3222916*
Fax: *3222917*
Web page: *www.iccf.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

ASIC Art SRL

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *Research Group*
Main activity of this centre: *Technological development*
Oficial contact person of the "centre", Name: *Mr Eliahu Friedmann*
Position (function): *Manager*
E-mail: *eli_f@asicart.com*
Phone: *+40 722 402 708*
Fax: *+40 232 217852*
Web page: *www.asicart.com*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Basic Research

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

Solid State Chemistry Research Group, Institute for Research in Chemistry

Independent centre: *No*
Parent Organisation: *Institute for Research in Chemistry Raluca Ripan, Cluj-Napoca,*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Elisabeth-Jeanne Popovici*
Position (function): *Laboratory Head*
E-mail: *jennypopovici@yahoo.com*
Phone: *+40-0264-375104*
Fax: *+40-0264-420441*
Web page: *http:/icrr.itim-cj.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Basic Research

Interest in technological platforms:

Human resources and competence description:
The members of the research group (4 PhD in inorganic chemistry, organic chemistry, spectroscopy and 4PhD students) possess theoretical & practical skill in material science field:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

Laboratory of Immunology and Genetics

Independent centre: *No*
Parent Organisation: *University of Medicine and Pharmacy Iasi and "Sf. Spiridon" Hospital*
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Mr Eugen Carasevici*
Position (function): *Professor*
E-mail: *kara@iasi.mednet.ro*
Phone: *0040232213212*
Fax: *0040232213212*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
5 persons MD, PhD, 1 person MS; cellular immunology, molecular biology. Immunology, Oncology, Biochemistry

Relevant equipments:
Thermocycler, Water bath, GelDoc Systems, Gel migration systems, Centrifuges, Microscopes, ELISA, Chemiluminescence, Sterile/pure water, Autoclave

Scientific and technological services provided:
Research projects; Patient investigation (Flow cytometry, serological investigations for tumour markers, HLA etc)

FP6:
not applicable

FP5:
not applicable

Other international Project:
not applicable

Technical University of Iasi

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Gabriela Carja*
Position (function): *associate professor*
E-mail: *carja@uaic.ro*
Phone: *0232 20 12 31*
Fax: *0232 20 1160*
Web page: *www.ch.tuiasi.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Basic Research

Interest in technological platforms:
- INNOVATIVE MEDICINES FOR EUROPE
- MANUFUTURE - Future Manufacturing Technologies

Human resources and competence description:
The synthesis and the physico-chemical characterisation of nanoclays possesing mesoporous features, tailoring their acide-base and redox properties; the research work is done in close collaboration with Tokyo Institute of Technology, Japan.
Current project: Naoparticles of anionic clays incorporated with pesticides (Mospilan and Folicur). Synthesis, characterisation and environmental tests.

Relevant equipments:
FTIR, UV-VIS, TG-DTG, SEM

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

CENTER OF IMMUNOPHYSIOLOGY AND BIOTECHNOLOGY TIMISOARA

Independent centre: *No*
Parent Organisation: *UNIVERSITY OF MEDICINE AND PHARMACY VICTOR BABES TIMISOARA*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr GABRIELA TANASIE*
Position (function): *lecturer*
E-mail: *gtanasie@umft.ro*
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Fax: *0040-256490507*
Web page: *www.imunobiotech-tm.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)
- Basic Research

Interest in technological platforms:

Human resources and competence description:
-11 researchers and 15 PhD students: medical doctors (laboratory medicine, anatomo-pathology, immunology, allergology), biology specialists,specialists in organic chemistry
- expertise in cell culture, flowcitometry, molecular biology, imunohistology, imunotoxicology, cell banking
- research interests: stem cell (haematopoietic and mesenchymal) plasticity for regenerative medicine (in cardiovascular diseases, diabetes mellitus, osteoarticular diseases); immunogerontology; dendritic cells potential in neoplasic diseases and transplant immunology; in vitro biocompatibility of various materials.

Relevant equipments:
- cell cultures facilities (laminar flow hoods, incubators, microscopes)
- flowcitometers FACSCalibur Beckton Dickinson
- magnetic cell selectors (midiMACS, cliniMACS)
- standard equipment for molecular biology (thermocyclers, microcentrifuges, electrophoresis units, UV system for gel image analysis)
- an electroporating transfecting system type Nucleofector (Amaxa)
- GC system with mass spectrometer, HPLC system, ICPMS system
- freezers, refrigerators, nitrogen tanks for cryopreservation with freezing unit
- centrifuges with various rotor types, with controled temperature; high speed centrifuge (30,000 rpm)

Scientific and technological services provided:

FP6:
Tytle:Adult mesenchymal stem cells engineering for connective tissue disorders. From the bench to the bed side (Nr. 503161)
Acronym - GENOSTEM
Type of project: Integrated Project (IP)
Priority: 1 (LSH)
start year: 2004; end year: 2008.
Partner in this project

FP5:

Other international Project:
- partner in project "European quality system for tissue Banking", financed by SANCO directorate Luxemburg (2003-2005).
- partner in project "European Quality Management System Network for Blood Safety EU-QMS-BLOODNET " financed from EU Public Health Programme, SANCO directorate Luxemburg

(2005-2007
- coordinator of postgraduate Training in Cellular Therapies, mobilities grant "Leonardo da Vinci" (2003-2004).

Non-destructive control laboratory

Independent centre: *No*
Parent Organisation: *Dunarea de Jos University*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Gheorghies Constantin*
Position (function): *Head of Laboratory*
E-mail: *cgheorg@ugal.ro*
Phone: *+40.236.727.309.703*
Fax: *+40.236.461353*
Web page: *www.phys.ugal.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy

Interest in technological platforms:

Human resources and competence description:
Persons are well prepared in field of materials science, having a national and international recongnition certified by participation at projects or scientific papers that were published in prestigious journals.

Relevant equipments:
X-ray diffractometer, Eddy current equipment, Ultrasound equipment, X-ray defectoscope, PVD-equipment, Electrodeposition eqipment, Tribological testing stands.

Scientific and technological services provided:
Control of strucure, phase analysis, analysis of defects, technical solution in order to improve the behaviour of some materials subjected to damaging processes etc.

FP6:
-

FP5:
-

Other international Project:
Collaboration with Chemnitz University in preparation of some nanocomposite and analysis of texture degree, contract RO014/2003-2004.

Biophysical and physiological anthropological laboratory

Independent centre: *No*
Parent Organisation: *Anthropological Research "Center Fr.I.Rainer"Romanian Academy*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Glavce Cristina*
Position (function): *Scientific Researcher I*
E-mail: *franciscrainer@yahoo.com*
Phone: *004-021-212.66.63*
Fax: *004-021-212.66.63*
Web page: *www.acad.ro/antropologie/Paginadecasa/Engl.htlm ; corneliaguja.home.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Basic Research

Interest in technological platforms:

Human resources and competence description:
- Head of the Laboratory of Biophysical and Physiological Explorations (founded in 1975) and of the Individual's Anthropology (1998) at the Anthropological Research Center of the Romanian Academy;
- Head of a Surgery of Palm-Sole Electrography at The University Hospital in Bucharest (1994-1999) organized in collaboration with the hospital.
- Diploma and project supervisor for students from various faculties, starting in 1978
- Doctor's degree supervisor in the specialty Medical Anthropology (2003)
- Permanent activity in the following main directions: a) experimental in the laboratory and b) theoretical: a) elaboration of methodologies for medical-anthropological diagnosis by establishing certain typologies: auxiologic, androgynous, bioelectrical and highlighting of the halo of living and non-living bodies by means of electrography (EG). b). by initiating a new field of approach for the human being – individual's anthropology, the development of the interface theory for interpretating the halo of the human body, setting the basis of Integronics Theory (1977), the experimental results obtained in the laboratory, synthesized in two published books (1993, 2000).
- Participant in international conferences with scientific works, posters and picture shows: IUAES (International Union of Anthropological and Ethnological Sciences), Williamsburg, 1998, Beijing, 2000; Inter-Congress 2002 Tokyo, Florence 2003, EAA (European Association of Anthropology): Prague, 1999: Cambridge, 2000: ISPNE (International Society of Psychoneuroendocrinology): St. Petersburg, 2001.

Relevant equipments:
Laboratory and Equipaments of Electrography
An important anthropological and electrographical data base (over 30 years , over 20.000 images)

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

IEETE Research Center

Independent centre: *No*
Parent Organisation: *University of Craiova, Romania*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Education*
Oficial contact person of the "centre", Name: *Prof Grigore A. CIVIDJIAN*
Position (function): *Professor, director of Research Center*
E-mail: *gcividjian@elth.ucv.ro*
Phone: *+40251435724 add. 127*
Fax: *+40251436447*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)

Interest in technological platforms:

Human resources and competence description:
12 members from the University of Craiova.
Electrical engineering: electrical apparatus and transformers, electrophysical devices, electrical technology, statistical models and reliability.

Relevant equipments:
HV test transformer and puls generator. Measuring equipment. PC net.

Scientific and technological services provided:
Technological research for industry needs. Modeling physical phenomena. Electric, thermal and magnetic field computation. Reliability evaluation. Research assesment.

FP6:

FP5:

Other international Project:
International PhD – seminar on Computation of Electromagnetic Field, 23-28 September 2004, Budva / Serbia & Montenegro,
Int. Ph.D Seminar on Numerical Field Computation and Optimization in Electrical Engineering, Ohrid, 2005. Sponsored by Germany. (DAAD) Speaker. Associate partner.

National Institute for R&D in Technical Physics Iasi

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *choose*
Oficial contact person of the "centre", Name: *Prof Horia Chiriac*
Position (function): *Director General*
E-mail: *hchiriac@phys-iasi.ro*
Phone: *(+40) 232 430 680*
Fax: *(+40) 232 231 132*
Web page: *www.phys-iasi.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
Competence in:
- preparation of crystalline and non-crystalline metallic materials in form of bulk specimens, powders, ribbons, glass-covered wires, thin films, nanowires;
- structural characterisation;
- magnetic and micromagnetic characterisation of ferromagnetic amorphous and nanocrystalline materials;
-non-destructive control.

Relevant equipments:

Scientific and technological services provided:

FP6:
-"Network for Nanostructured Materials of Associate Candidate Countries" (ACC) - NENAMAT - 2004-2005;
- "Magnetoelastic Energy Systems for Evn More Electric Aircraft" - MESEMA 2004-2005;

FP5:

Other international Project:
To be filled in later

Research Department

Independent centre: *No*
Parent Organisation: *Research Institute for Auxiliary Organic Products*
Position inside parent organisation: *Department of an Institute*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Mrs Hudak Gyongyike*
Position (function): *Chief of Research Department , Scientif Researcher II*
E-mail: *icpao@birotec.ro ; hgymm@yahoo.com*
Phone: *+40269843601*
Fax: *+40269831377*
Web page: *http://icpao.birotec.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)

Interest in technological platforms:

Human resources and competence description:
8 scientific researchers with competence in the field of organic synthesis, polymer chemistry, phisico-chemical analysis, environment; prepareing and management of the projects; technological transfer pilot scale-up

Relevant equipments:
Synthesis instalation for laboratory and pilot; analysis apparatus :
-HP 5890 series II Plus gas chromatograph
-HPLC chromatograph type Jasco UW-970
-IR, UV, VIS spectrophotometers
-Viscometer type RP1 with measure of temperature
-Photopolymerization apparatus type Blue-Point-highly intensive

Scientific and technological services provided:
The main research activities: 1) synthesis, characterization, testing of UV coating products for different application, decorative and functional UV coatings on various supports: metal, wood, glass, textiles, plastics, paper; 2) synthesis, characterization (structural analysis, physicochemical analysis) of additives for polymerisation in sectoral and cross-sectoral applications ; 3) synthesis, characterization of polymers and nanocomposite materials with special properties and uses (for leather, textiles, paper ind., tiles, etc.); 4) tehnologies and methods for environment protection; 5)fine organic synthesis of farmaceutical intermediates.

FP6:

FP5:

Other international Project:

Nanosciences-Alternative Energy Sources

Independent centre: *No*
Parent Organisation: *University of Bucharest*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Ioan Stamatin*
Position (function): *director*
E-mail: *istarom@polymer.fizica.unibuc.ro*
Phone: *++ 40-21-4574838*
Fax: *++ 40-21-4574838*
Web page: *3nanosae.unibuc.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy

Interest in technological platforms:

Human resources and competence description:
40- researchers
1. Fuel cells, Hydrogen storage
2. Nanobiotechnology& Nanomedicine- Labbeling with Q-dot, nanoparticles, drug delivery; virus surgery, passive immunization
3. Polymer architectures for nanoelectronics and biosensors; biocompatibilities
4. Nanomaterial synthesis and characterization
5. Supercritical fluids in

Relevant equipments:
1. UV-Vis-NIR-FT-IR, Jasco series
2. Raman
3. Lithography& Nanolithography chain; DipPenNanolithography
4. Electrospray-Ionization- Plasma polymerization
5. Plasma processing (Magnetron, e-gun, etc)
6. Fluorescence,excitation -analysis for Q-dots
7. Line for fuel cells -testing and characterization

Scientific and technological services provided:
1. Training by Master & Post Doc programme
2. Analysis, materials

FP6:
1. Biofuel Cells- BFC- Marie Curie TOK, 2005-2008,partner

FP5:

Other international Project:
1. NATO-SfP 974214 Carbon-Ceramic Materials, 2000-2003

Electron Microscopy Laboratory

Independent centre: *No*
Parent Organisation: *Technical University of Cluj-Napoca*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Ioan Vida-Simiti*
Position (function): *Director*
E-mail: *Vida.Simiti@stm.utcluj.ro*
Phone: *00 40 745525294*
Fax: *00 40 264415054*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:

Human resources and competence description:
Prof. Dr. Ing. Ioan Vida-Simiti: Composite Materials,Processing of Materials, Scanning Electron Microscopy, Powder Metallurgy, Filtering Materials,

Prof. Dr. Ing. Fiz. Ionel Chicinas: Magnetic Materials Materials, Scanning Electron Microscopy,X-ray Diffraction, Powder Metallurgy

Conf. Fiz. Dr. Nicolaie Jumate: Scanning Electron Microscopy,X-ray Diffraction, Powder Metallurgy

Relevant equipments:
Scanning Electron Microscope: Jeol 5600 LV
X-ray Diffractometer : Oxford Instruments
Software: Inca 200, Image ProPlus, Materials Pro

Scientific and technological services provided:
1. Nanomaterials and New Adhesives for High Performance Applications in Stomatology (2005-2006)
2. NiAl and Ni Nanopowders Obtained via Powder Metallurgy (2003-2005)
3. Mettalic Materials with Unidirectional Porosity (2003-2005)
4.Perovskitic Nanostructures La(1-x)CaxM2O3 with Giant Colossal Magnetoresistance (2001-2003)
5. Change Interactions in Magentic Nanostructures (2002-2004)
6. Studies about the Methods of Obtaining Micro and Nanostructures Based on Polypyrrole and Polypyrrole Composites (2002-2003)

FP6:

FP5:

Other international Project:

DIAGNOSIS LABORATORY

Independent centre: *No*
Parent Organisation: *NATIONAL ARTS UNIVERSITY*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Education*
Oficial contact person of the "centre", Name: *Prof IOANA GOMOIU*
Position (function): *Microbiologist*
E-mail: *ioana.gomoiu@ibiol.ro;gomoiu@hotmail.com*
Phone: *+40744961213*
Fax:
Web page: *In progress*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Food, Agriculture and Biotechnology
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)
- Socio-economic Sciences and Humanities
- Basic Research

Interest in technological platforms:

Human resources and competence description:
There are 3 Professors,4 lecturers and 3 assistants in the following fields: Restoration and conservation of mural paintings, icon on wooden support and stone; Microbiology, Draw, Chemistry, Physics, Iconography,Mural paintings techniques

Relevant equipments:
Basic equipment for cultural methods of microorganisms, spectrophotometer, LIDAR, Olympus microscope

Scientific and technological services provided:
Microbiological assays: total number, physiological groups, sensitivities to biocides and physical agents; resistence of historical and new materials to biological atack, Mapping of biodeteriorated area by cultural, biochemical methods and advanced techniques; Pigments analyses, Chemical analysis of historical materials, Monitoring of environmental parameters

FP6:

FP5:
Laser microscope for cleaning of artwork and advanced optics techniques for diagnosis and treatment-CORINT EUREKA1999 - 2001 -associate partner

Other international Project:
- Advanced Artwork Restoration and Conservation Methods using Laser - COST G7 EC- 2001 - partner
- Advanced On-Side Laboratory for European Antique Heritage Restoration - CULTURE 2000- EC- 2004-partner

Department of Organic Chemistry

Independent centre: *No*
Parent Organisation: *University of Bucharest*
Position inside parent organisation: *Department of an Institute*
Main activity of this centre: *Education*
Oficial contact person of the "centre", Name: *Prof Ion Baciu*
Position (function): *Chief of Department*
E-mail: *ion_baciu2004@yahoo.com*
Phone: *+40 - 21 - 412 01 40*
Fax: *+40 - 21 - 412 01 40*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)
- Basic Research

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

Laboratory of Nanotechnology

Independent centre: *No*
Parent Organisation: *IMT-Bucharest*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Irina Kleps*
Position (function): *head of the laboratory*
E-mail: *irinak@imt.ro*
Phone: *+4021.490.80.85*
Fax: *+4021.490.82.38*
Web page: *http://www.imt.ro/organisation/research%20labs/L1/index.htm*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:
- EUROPEAN NANOELECTRONICS INITIATIVE ADVISORY COUNCIL (ENIAC)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- SUSTAINABLE CHEMISTRY
- INNOVATIVE MEDICINES FOR EUROPE

Human resources and competence description:
The research team has multidisciplinary expertize and is composed of 4 senior researchers (with PhD in physics, chemistry, electronics), 1 Romanian early stage researcher (with background in physics and computers), 4 PhD students (with background in physics and chemistry and specializations in pharmacy and biochemistry).

Relevant equipments:
Pourous silicon power supply; Trace Lab- VoltaLab 50 (PST050 & VoltaMaster 4); Picoampermmeter Keithley model 6487;Transmission- reflexion- fluorescence microscope with images acquisition and measurement system.

Scientific and technological services provided:
Porous silicon (PS)with luminescence and biocompatible properties for biomedical applications;

FP6:
1. "Nanostructured and Functional Polymer-Based Materials and Nanocomposites" (NANOFUN-POLY)- 2004- 2008;IMT is partner in this Network of Excellence;
2. RIMDAC programme - Research Infrastructure for Microelectronics Development, Analysis and Characterisation / “Porous silicon matrix for biomedical applications” (2003 – 2004);

FP5:
EMERGE Programme “Enhancing Microtechnological Education of young Researchers through Guest Experiments”, Improving Human Potential Transnational Access To Research Infrastructures / “Metallics - Fabrication of nanoelectrodes” (2000 – 2002);

Other international Project:
- Marie Curie Host Fellowships programme: a young researcher from our group, Teodora Ignat, is involved in the project: Nanoelectrochemistry: from the synthesis of nanomaterials to functionality; job title: Functionalization of silicon surfaces for bioelectronics; Host Laboratory: PMC CNRS - Ecole Polytechnique France, 2005-2006.
- NATO Collaborative Linkage Grant: 'Novel optical nanosensors on the basis of organic nanofibers', 2005 -2006, coordinated by Prof. .Dr. Horst-Günter Rubahn from Physics Institute, Syddansk Universitet, Odense, Denmark
- INCO-COPERNICUS Project 7037 / "Si-based light emitting devices for optical interconnects" - SBLED

(sept.1998 – sept. 2001);partner;

Microwave and Optoelectronics Laboratory

Independent centre: *No*
Parent Organisation: *Technical University of Iasi*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Irinel CASIAN-BOTEZ*
Position (function):
E-mail: *icasian@rf-opto.etc.tuiasi.ro*
Phone: *+40-744-819967*
Fax: *+40-232-217720*
Web page: *http://rf-opto.etc.tuiasi.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
Team: 1 Professor and 2 Assistent Professor
Expertise in EU Programmes, National Programmes and Publications:

1) \"Contributions to the microwave structures analysis using
theTLM method\", NATO-CN.NIG 641387, (470.000 BEF), NonNATO Coutry Director
2) Departamental Coordinator in SOCRATES/ERASMUS Programme, 2000-2005.
3) Expert for Roumanian NATIONAL UNIVERSITY RESEARCH COUNCIL
Bibliography of Publications:
Publications Number of papers in refereed journals: 13
Number of communications to scientific meetings: 40
Books: 5
Text Courses: 3 (in French) (teched at ENSEA - Cergy Pontoise, France)
Books
Irinel Casian-Botez,\"Fibre Optic Communications\", Ed. \"Gh. Asachi\", Iasi 1996, ISBN 973-9178-40-5, pp.145.
Irinel Casian-Botez,\"Theory and Design of Microwave Circuits\", Ed. \"MATRIX ROM\", Bucharest 1998, ISBN 973-9254-87-X, pp.378.
Irinel Casian-Botez, \"Microwaves\", Ed. \"CANOVA\", Iasi 2001, ISBN 973-96099-5-3, pp.585.
Irinel Casian-Botez,\"Optoelectronic Structures\", Ed. \"CANOVA\",Iasi 2001, ISBN 973-96099-2-9, pp.157.
Irinel Casian-Botez, Daniel Matasaru, Introduction To Internet , Ed. Tehnopres, To be published
Irinel Casian-Botez, M.Azizi, H. Aubert, Henri Baudrand - A New Iterative Procedure Using The Concept of Wave Differential And
Integral Formulation -, PIERS 1996, Innsbruck-Austria.
Irinel Casian-Botez, Vlad Cehan \"Derivation Of Equivalent Schemes Based On Electromagnetic Simulation Of Passive Microwave Devices\", The scientific memories of Roamanian Academy, Tom XXIII, 2000.
Networking adviser in \"Reproduction Health Center \", project developed by \"Elena Doamna\" Hospital, Iasi-Romania, in collaboration with United States Agency for International Development Mission in Romania.

Relevant equipments:
3 computers runing windows XP
Electromagnetic Software: HFSS, SONNET, OPTIWAVE
Circuits CAD: ADS, SERENADE, GENESYS
Microelectronics CAD: CADANCE, MEMS Pro
PDE Solver: MATLAB+FEMLAB

Scientific and technological services provided:
Numerical methods for PDE
Electromagnetic simulation for microwaves or optoelectronics (MoM, FDTD, FEM, TLM)
CAD Circuits Design for microwaves

Experience in IT software: PHP, MYSQL, XML, ASP

FP6:

FP5:

Other international Project:
1.“Contributions to the microwave structures analysis using theTLM method” NATO-CN.NIG 641387, 1995.
2.“Microwave Research Cyber-Laboratory” NATO-NIG961257 , 1996
3.“Microwave Distributed Research” NATO-CN.NIG971150, 1997.
4.“High Frequency Passive Integrator-Transponder Identification System”, NATO-SfP973473, 1999.

RESEARCH CENTER FOR MODELING AND SIMULATION IN NANOELECTRONICS

Independent centre: *No*
Parent Organisation: *Technical University of Iasi*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Irinel CASIAN-BOTEZ*
Position (function): *Director*
E-mail: *irinel_casian@yahoo.com*
Phone: *+40 744 819967*
Fax: *+40 232 217720*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Basic Research

Interest in technological platforms:
- EUROPEAN NANOELECTRONICS INITIATIVE ADVISORY COUNCIL (ENIAC)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- MOBILE AND WIRELESS COMMUNICATIONS (eMobility)

Human resources and competence description:
Staff: 2 professors,4 associates – professors,1 lectures,3 assistant-professors,3 doctorands,1 master student.
Main criterions which induced accreditation at national level: 112 publications (71 in ISI journals),9 books, 3 grants. 2001-2005.Domains: physics, microwaves, optoelectronics

Relevant equipments:
Software tools: FEMLAB, OptiWave, ADS, SONNET, HFSS,CST Studio, MATLAB, MATHEMATICA.

Scientific and technological services provided:
- Scientific expertises

FP6:

FP5:

Other international Project:
REFERENCE POINT FOR ELECTRICAL AND INFORMATION ENGINEERING IN EUROPE, EU-thematic network, 2005-2008, associate partner.

FIMAN Development Services SA

Independent centre: *No*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Consultancy*
Oficial contact person of the "centre", Name: *Mr Iulian Maxim*
Position (function): *consultant*
E-mail: *iulian.maxim@fimands.ro*
Phone: *+4 021 2111945*
Fax: *+4 021 2111937*
Web page: *www.fimands.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Transport (including Aeronautics)
- Socio-economic Sciences and Humanities

Interest in technological platforms:

Human resources and competence description:
FIMAN Development Services was established in 1999 having the mission to provide specialized consulting services for domestic and international clients in order to attract funds offered by various financing schemes and programmes. FIMAN Development Services acts as project coordinator or partner within numerous project co-financed and develops specific support activities for diverse target groups (central and local authorities, small and medium-sized enterprises (SMEs), non-governmental organizations, professional bodies, other public or private companies.
FIMAN Development Services ‘s experts team has relevant experience in identification and promotion of financing sources but also in preparation and management of the project financed programmes such as PHARE, SAPARD, World Bank, the 5th Framework Program (FP5), the 6th Framework Program (FP6), YOUTH, Leonardo da Vinci. Beside the full time hired experts, FIMAN Development Services cooperates with external experts/consultants, covering key qualifications in the following areas like project management, fund administration, management development, human resource development, training, public relations and public awareness campaigns.
Starting with 2004, FIMAN Development Services is hosting the National Contact Point for SMEs. The services provided include support and consulting for SMEs to access the financing schemes offered by the 6th Framework Program (FP6).

Relevant equipments:

Scientific and technological services provided:

FP6:
1. "Enhancing the participation of research organizations from Associated Candidate Countries to the 6th Framework Programme"/EUROPEAN IST - coordinator; SSA; IST Thematic Priority; Time frame: 2005 – 2006
2. "Integration of Associated Candidate Countries and New EU Member States in European Research Area by ENVironmental approaches"/ERA ENV - coordinator; SSA; "Sustainable Development and Ecosystems" Thematic Priority; Time frame: 2005 – 2006
3. "Support To Associated Countries and New Member States"/STAR NET - partner; SSA; IST Thematic Priority; Time frame: 2005 – 2007
4. "Supporting IST organisations from Central & Eastern Europe"/CEEC IST NET - partner; SSA; IST Thematic Priority; Time frame: 2005 – 2006

FP5:

Other international Project:

National R&D Institute for Electrical Engineering ICPE-CA Bucharest

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Jenica Neamtu*
Position (function): *Head of laboratory*
E-mail: *jenica_neamtu@yahoo.com*
Phone: *+40213468297*
Fax: *+40213468299*
Web page: *www.icpe-ca.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Security and Space
- Basic Research

Interest in technological platforms:

Human resources and competence description:
In January 2005 the institute staff was formed of 156 employees (57.7 % female and 42.3 % male), from which 102 employees with high school diplomas.
The contribution of the staff in the research activity was in average of ~ 62.8 %, and in the development field (testing, services, technological transfer) was of 20.5 %, the difference being attributed to the administrative staff.The research-development and technological transfer staff structure, as it is shown in the same Annex was formed of 30 Doctors, 24 PhD. students, 4 Masters of Science. The certified staff in a number of 83 persons included: 59 Senior Researchers, 13 Researchers, 11 Assistant Researchers.

Relevant equipments:
Equipments for:
- determining of physical and mechanical characteristics
- determining of electrical characteristics
- determining of magnetic characteristics
- structural analyses
- microbiological analyses

Scientific and technological services provided:
Basic and applied research: hydrogen storage materials, multifunctional metallic materials, advanced carbonic materials, magnetic materials, nano-structured materials and their applications, gasohydrodynamics, advanced ceramic materials, new energy sources (fuel cells) renewable (wind and water plant), conducting materials, superconducting materials, dielectric and ferro-electric materials, polymeric materials processed through radiation and luminescence techniques, technologies testing and characterizations of materials, non-conventional electrical engineering, materials characterization, electrochemical technologies and active anticorrosive protection, techniques and analysis,

FP6:
1 project on FP6-2004-ACC-SSA-2 ”Strengthening of the RDI potential for advanced materials and composites to enhance the performance of the electrical industry”.2004-2006

FP5:

Other international Project:
3 NATO SfP projects;

1 COST project Action 528,

Research Centre in MOLECULAR BIOPHYSICS

Independent centre: *No*
Parent Organisation: *UNIVERSITY OF BUCHAREST*
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Dr LAURA TUGULEA*
Position (function): *Professor*
E-mail: *ltugulea@fpce1.fizica.unibuc.ro*
Phone: *+4021 457 51 21*
Fax: *+4021 457 45 21*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
2 Professors in Biophysics
1 Associate Professor in Biophysics
2 Assistant Professors
10 M.Sc. students in Biophysical Mediacl Physics
1 Ph. D. studentin Biophyscis

Relevant equipments:
- Spectroscopy equipment (Perkin Elmer absorption spectrometer, steady state and time resoved emission spectrometers) computer assisted
- Autolab electrochemical instrument - computer assisted
- Biochemistry smell equipment + ultracentrifuge
- Electrical and photoelectrical measurement equipment (Keithley)

Scientific and technological services provided:

FP6:

FP5:

Other international Project:
TEMPUS Project "Developing the Biophysics education in Faculty of Physiscs - University of Bucharest - 1994-1999

Research Centre "Electrical Engineering in Industrial Systems"

Independent centre: *No*
Parent Organisation: *Faculty of Electrical engineering of Iasi*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Education*
Oficial contact person of the "centre", Name: *Prof Livint Gheorghe*
Position (function): *director*
E-mail: *glivint@tuiasi.ro*
Phone: *0232-278683*
Fax: *0232-237627*
Web page: *www.ee.tuiasi.ro/~euedia*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Transport (including Aeronautics)

Interest in technological platforms:

Human resources and competence description:
The 18 members of the center are members in thre main teams: one focused on electric technologies, one in power electronics and electric drives, ans one in industrial automations. There are 6 professors, 4 assoc. pofessors and 4 senior lecturer with a good reserch experience, plus at least 4-5 Ph.D. students.

Relevant equipments:
DSP control board dSPACE 1104, small robots, computers, divers laboratory apparatus etc.

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

University Politehnica Bucharest - Centre for Advanced Technologies

Independent centre: *No*
Parent Organisation: *University Politehnica Bucharest*
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Mrs Magdalena NECULAESCU*
Position (function): *Research Assistent*
E-mail: *magdalena@ctanm.pub.ro*
Phone: *40 21 4112604*
Fax: *40 21 4112687*
Web page: *www.ctanm.pub.ro/*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:
Encourage and facilitate the participation of Small and Medium Sized (SMEs) companies from the candidate countries in FP6 - NANOMAT -

FP5:
European Network - SAIL - Strengthening Academic & Industrial Links
Thematic Network in Frame Programme V

Other international Project:

Microelectronics R&D Centre EDIL

Independent centre: *No*
Parent Organisation: *University Poltehnica of Bucharest*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Marcel D. Profirescu*
Position (function): *Professor*
E-mail: *profires@edil.pub.ro*
Phone: *021-4024834, 0722-324490*
Fax: *021- 2307787*
Web page: *www.edil.pub.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Security and Space
- Basic Research

Interest in technological platforms:

Human resources and competence description:
Prof. Marcel Profirescu
Microelectronics, Nanotehnology, Modelling, Simulation, Design, Numeric methods, e-Learning

Lecturer Florin Babarada
MEMS, Microelectronics, Nanotehnology, Modelling, Simulation, Design, e-Learning

Prof. Eugen Lakatos
Microelectronics, Technology and TCAD

As. Bogdan Govoreanu
Microelectronics, Nanotehnology, Modelling, Simulation, Design

As. Octavian Mitrea
Microelectronics, Analog-mixed signal design

Eng. Amza Claudiu
Microelectronics, Nanotehnology, Modelling, Simulation, Design

Ovidiu Profirescu
IT and Microelectronics

Relevant equipments:
Computing Equipments:
- 8 work stations IBM RISC6000 and 24 IBM PC;
- Configuration: dynamical, by 4 servers, two Linux and two Microsoft Windows NT Sever 4.0;
- Operation System: IBM AIX, Microsoft Windows NT 4.0, Microsoft Windows 2000 Professional, Linux RedHat;
- Monitors: 21” for RISC platforms, 17” for PC;
- Printer IBM 4029, HPIIIP, HP 4ML and color printer HP 1200C/PS, scanner HP6100C, CD-ROM

Communication Equipments:
- Digital switch SIEMENS with 4 extern lines and 24 intern lines and ISDN;
- Satellite bi-directional unity;
- Communication switch IBM 8271-712;
- HUB master IBM 8245-112;
- HUB slave IBM 8245-0 12;

Other Equipments:

- Multimedia Projector SANYO PL C-9000E;
- Retroprojector Geha Top Vision SL 36;
- Diaprojector;
- Digital Video Camera Panasonic.

Scientific and technological services provided:
· Modeling, simulation and design optimization of microelectronic processes, devices and ICs;
· Software methodology (CAD/CAE, AI, Computer graphics in Electronic Engineering);
· Applied ICT (Web, OOP, Java);
· Computer aided engineering education/e-Learning and e-Training;
· Education in microelectronics, electrical and electronic engineering, numerical methods, information sciences, electronic design automation (EDA).

FP6:

FP5:

Other international Project:
Transistor Mismatch for Analog Design from a TCAD Perspective, International Project, Partners: KUL, Leuven, B; IMEC, Leuven, B, Ministry of the Flemish Community/BIL98/46, 1998-00.

Modelarea fenomenelor de transport in nanostructuri semiconductoare utilizand metoda Monte Carlo, International Project, Partner: IEMN, Lille, F, CNCSU/15-98-03/1998-00.

Reliability Laboratory

Independent centre: *No*
Parent Organisation: *National Institute for R&D in Microtechnologies*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Marius Bazu*
Position (function): *Laboratory Head*
E-mail: *marius.bazu@imt.ro*
Phone: *+40-21-4908412*
Fax: *+40-21-4908238*
Web page: *http://www.imt.ro/organisation/research%20labs/L7/index.htm*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)
- Transport (including Aeronautics)
- Security and Space
- Basic Research

Interest in technological platforms:
- EUROPEAN NANOELECTRONICS INITIATIVE ADVISORY COUNCIL (ENIAC)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- PLANTS FOR THE FUTURE
- WATER SUPPLY AND SANITATION (WSSTP)
- EMBEDDED SYSTEMS (ARTEMIS)
- ADVISORY COUNCIL FOR AERONAUTICS RESEARCH IN EUROPE (ACARE)
- EUROPEAN SPACE TECHNOLOGY PLATFORM (ESTP)
- MANUFUTURE - Future Manufacturing Technologies

Human resources and competence description:
Three senior researchers (2 PhDs), with background in microelectronics and 30 years experience in quality & reliability.

Relevant equipments:
Environmental testing: Rapid change of temperature, Low air pressure, Damp heat, Temperature storage Mechanical acceleration, Vibrations, Salt mist, Sealing with bomb pressure test, Electrical endurance with thermal stress, etc.;
Accelerated testing: Bias & temp., Tilting & temp., Screening the reliable chips by laser acceleration of the recombination.

Scientific and technological services provided:
Reliability building: Design for reliability and testability - design for manufacture, Reliability monitoring & screening of micro and nanostructures, Burn-in and selection, Reliability of components used in harsh environment (nuclear, geology, automotive, aeronautics, etc.);
Reliability assessing: Accelerated testing of micro and nanostructures; Failure analysis & physics, Data processing & Reliability prediction, Behaviour of electronic components in harsh environment, Virtual prototyping;
Standardization: Certification, Qualification and periodic tests, Standards and other specifications.

FP6:
Network of Excellence “Design for Micro and Manufacture PATENT-DfMM” (2004-2007), with 24 partners (universities, research centres, companies) from 18 European countries. The NoE contains four scientific clusters: “Testing”, “Modelling & Simulation”, “Reliability & Characterization” and “Packaging”, all forming the workpackage WP9. Dr.M.Bazu is member of the Management Board and leader of the cluster "Reliaiblity & Characterization".

FP5:

Other international Project:
Building-In Reliability technology for power Diodes – BIRD (Phare/TTQM, project 1997-1999).
A co-operation project with the Romanian semiconductor company Baneasa SA, IMEL Demokritos Greece), Technical University Athens (Greece), University Politehnica of Bucharest (Romania).

ADVANCED ENGINEERING GROUP (AEG)

Independent centre: *No*
Parent Organisation: *UNIVERSITY OF CRAIOVA*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof MIHAIL MANGRA*
Position (function): *DEAN*
E-mail: *mihail.mangra@imst.ro, mihail_mangra@yahoo.com*
Phone: *+40.252.311226*
Fax: *+40.252.317219*
Web page: *www.imst.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)

Interest in technological platforms:
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- MANUFUTURE - Future Manufacturing Technologies

Human resources and competence description:
Human resources:
Mihail Mangra, Filip Ciolacu, Ion Ciupitu, Oana Gingu, Gabriel Benga, Lucian Gruionu, Daniela Coman, Cristina Teisanu, Stefan Gheorghe, Gabriela Sima, Dan Savu, Nicolae Craciunoiu, Nicolae Dumitru
Competence fields: powder metallurgy, nanoparticles processing, ceramic/metallic/composite materials, welding,plastic deformation, cutting processing, modeling and simulation, computer aided design, biomechanics, biomaterials

Relevant equipments:
injection moulding device, vacuum and hydrogen sintering furnaces, compaction equipment, Brinell-Rock devices, microwave sintering furnace, optical microscopes, cutting machine-tools

Scientific and technological services provided:
processing of powder particles by mechanical alloying, processing of advanced materials by powder metallurgy, modeling and simulation of advanced materials behavior during different tests, biomechanics modeling

FP6:
- Improving the understanding of the impact of nanoparticles on human health and the environment, IMPART, 2005-2007, CA (partner, funded)
- To provide collaborative support through access to knowledge of European efforts into sustainable processing of multifunctional materials by making connections, providing information, opportunities and identifying future strategies, MATINACTION, 2005-2007, CA (partner, to be proposed on September 2005);

- Science and technology of multilevel design of multifunctional sintered metals, MULTISINT, 2003, NE (partner, not funded)
- Network for Radical Development in Powder Metal technology, RADNET, 2003 (partner, not funded)

FP5:
-

Other international Project:
-

Center for Advanced Technologies

Independent centre: *No*
Parent Organisation: *University Politechnica Bucharest*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Mr Mindruta Silviu*
Position (function): *Research Assistant*
E-mail: *msilviu@ctanm.pub.ro*
Phone: *40.21. 411 26 04*
Fax: *40.21. 411 26 87*
Web page: *www.ctanm.pub.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

S.C. TELEMEDICA S.A.

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Mioara Radu MD*
Position (function): *General Manager*
E-mail: *m_r_telemedica@yahoo.com*
Phone: *40-021-327.52.58*
Fax: *40-021-327.52.59*
Web page: *www.telemedica.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- INNOVATIVE MEDICINES FOR EUROPE

Human resources and competence description:
Al.Campeanu - MD PhD Proff of Cardiology, Internal Medicine Clinic
M. Radu - MD E.N.T.
M. Macelaru - Biologist
R. Palas - Biologist
I. Ionescu - MD Dermatologist
B. Strajean - MD Cardiologist
M. Leustean - MD Rheumatologist
E. Valuta - MD Surgeon
C. Radulescu - MD Gynecologist
V. Hudici - MD Family Physician
R. Ionescu - MD Family Physician
I. Caragui - MD Family Physician
M. Simion - MD Family Physician
M. Radut - MD Family Physician
R. Statie - MD Internal Medicine
N. Cana - MD Family Physician
I. Pascu - MD Psychiatrist
M. Necsescu - Biologist

Relevant equipments:
Ultrasonograph MEDELKOM SLE 401
Spirometer MICROLYSER FIM MEDICAL SPL 50
Electrocardiograph MICROSMART MC MARQUETTE HELLIGE
Audiometer MAICO ST 20
Philips DUO DIAGNOST X-ray
Biochemistry analyzer DIMENSION AR
Hematology analyzer SEAC
Coagulometer analyzer SEAC
Urine analyzer URINEX
Electrophoresis analyzer MALTA
ELISA system

Scientific and technological services provided:
Medical examination
Lab analysis

FP6:

FP5:

Other international Project:

University of Agronomical Sciences and Veterinary Medicine Bucharest

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *PUC: Public Commercial Organisation*
Oficial contact person of the "centre", Name: *Prof Mona Popa*
Position (function): *Responsible for FP 6 participation*
E-mail: *monapopa@usamv.ro*
Phone: *+40212245275*
Fax: *+40212245277*
Web page: *www.usab.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
3 professors, 7 associate professors, 3 lecturers with expertise in:
- food technologies
- food microbiology
- food analysis
- impact of food on human health
- quality of animal feed and the influence on human health

Relevant equipments:
High performance physico-chemical and microbiological analysis equipment (HPLC, spectrophotometer, GC, Mass spectrometry)
Bioreacteurs, climatisation, devices, food refrigeration and packaging devices

Scientific and technological services provided:
- Research in national and international research projects
- Physico-chemical analysis for food and feed
- Consultancy activities

FP6:
RoDI project - ACC - SSA project

FP5:
Natural Antimicrobials from Plant as Food Preservatives (Plantchem - the acronym)

Other international Project:
Erasmus, Socrates, Leonardo da Vinci

ECOM-Association for protection of the human being and environmental for a sustainable development in the world

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *choose*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Mrs Nastac Maria*
Position (function): *President*
E-mail: *marianastac@yahoo.com*
Phone: *+41724395695*
Fax: *+40241616194*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Socio-economic Sciences and Humanities

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:
Comparing emerging ethical issue and legal differences impacting on European clinical trials, including a training workshop for researchers in New Mamber States
Acronym : TWR
Contract NO: PL 016621-TWR
Staret Year: Nov 2005-end year:oct 2006
position:member of Steering Commite-Culture

FP5:

Other international Project:
Leonardo da Vinci-PRPsychologyStage ”Training for Undergraduates to Acquire Good Practice in organizational Psychology and Public Relation"
2005-2006/Partener/contractor

NANOMAG - Nanoscaled Magnetic Materials for Advanced Applications

Independent centre: *No*
Parent Organisation: *AL.I.CUZA UNIVERSITY of IASI*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Nicolae SULITANU*
Position (function): *Head of NANOMAG Laboratory*
E-mail: *sulitanu@uaic.ro*
Phone: *+40 232 201173*
Fax: *+40 232 201150*
Web page: *http://www.geocities.com/ssd_is/ssden.html*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Security and Space
- Basic Research

Interest in technological platforms:

Human resources and competence description:
The research group: 3 professors, 8 PhD students, 5 master students, 3 ultimate year students. The research is focused on the synthesis and characterization of novel magnetic materials: 1D (nanowires, nanotubes, nanoclusters), 2D (thin films, micropowders), 3D (thick films, ribbons) structures with interesting mechanical, magnetic or electrical properties. Electrochemically technique such as electrodeposition or electroless deposition as well as magnetron sputtering and spin-quenching, are the processing routes used to obtain 3d ferromagnetic elements (Ni, Fe, Co)- nonmagnetic (metallic or nonmetallic) elements (W, Mo, Cr, Si, S, B, P) based alloys and, 3d ferromagnetic elements-rare earth (Sm, Gd) elements based alloys. As non-magnetic element(s) content increases during deposition, alloy structure changes from fine-grained to nanocrystalline, two-phase and finally becomes amorphous or highly disordered. Besides nanoscale and metastable intermetallic and quasicrystalline phases, special attention is devoted to magnetic nanowires or magnetic nanofibrous structure forming.

Relevant equipments:
o Electrodeposition in high pure conditions equivalent to utrahigh-vacuum of metallic films (ED)
o Multifunctional sputtering (dc diode, RF, magnetron)
o Deposition of thin films by vacuum thermal evaporation
o X-ray diffractometry (XRD)
o Torque magnetometery (TQM)
o Vibrating sample magnetometery (VSM)
o Histeresis Loop Tracer (HLT)
o Computer assisted - Magnetic domain visualization
o High precision magnetostriction measurements
o Magnetic susceptibility balance
o Metallographic and interferometric microscopy
o Thermal treatments
o Electrical conductivity measurements

Scientific and technological services provided:
o Phase analyse by X-ray diffraction
o Magnetic measurements (TQM-torque magnetometry, VSM, susceptivity)

FP6:

FP5:

Other international Project:

SIMO

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof NICOLAE TOMA*
Position (function): *PROF*
E-mail: *n.toma@oxy.pub.ro*
Phone: *3848*
Fax:
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

Romanian

Independent centre: *No*
Parent Organisation: *IFIN HH*
Position inside parent organisation: *Department of an Institute*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Nicolae Victor Zamfir*
Position (function): *Head of IFIN HH*
E-mail:
Phone:
Fax:
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)
- Basic Research
- Nuclear Research

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

Research-Development Institute for Beekeeping

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *PNP: Private Organisation, Non Profit*
Oficial contact person of the "centre", Name: *Mr Paul Bucata*
Position (function): *Research Manager*
E-mail: *paulbucata@yahoo.com*
Phone: *+4021 2325060; +4021 2325560*
Fax: *+4021 2320287*
Web page: *www.icda.go.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
22 scientific researchers

Relevant equipments:
apitron and other laboratory equipment

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

AVIATION METALLURGY

Independent centre: *Yes*
Parent Organisation: *IMA-METAV S A*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Paul-Cristian OLARU*
Position (function): *Manager Scientific & Research Aircraft materials*
E-mail: *olarupc@yahoo.com*
Phone: *+ 40 21 201 1766*
Fax: *+ 40 21 201 1767*
Web page: *www.ima-metav.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Transport (including Aeronautics)
- Security and Space
- Basic Research
- Nuclear Research

Interest in technological platforms:
- EUROPEAN NANOELECTRONICS INITIATIVE ADVISORY COUNCIL (ENIAC)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- PLANTS FOR THE FUTURE
- SUSTAINABLE CHEMISTRY
- ROAD TRANSPORT RESEARCH ADVISORY COUNCIL (ERTRAC)
- RAIL RESEARCH ADVISORY COUNCIL (ERRAC)
- ADVISORY COUNCIL FOR AERONAUTICS RESEARCH IN EUROPE (ACARE)
- EUROPEAN SPACE TECHNOLOGY PLATFORM (ESTP)
- STEEL
- MANUFUTURE - Future Manufacturing Technologies
- CONSTRUCTION TECHNOLOGY (ECTP)

Human resources and competence description:
1-Doctor in Science;12- Dipl. Engineers

Relevant equipments:
-spectrometer with photoelectric receiver in optical emossion;
-structural-analyses laboratories;SEM amd TEM microscopy;optic macro and micro microscopy;
-mechanical tests laboratoty(hardness;fatigue, fracture, bending,tensile,compression,creep,stress corrosion,tensile shock,etc.);

Scientific and technological services provided:
According to ASTM;DIN;EN;BS;AFNOR;GOST;SR EN;FAA;
1.mechanical tests;
2.structural tests;
3.chemical amalyses;
4.metalography and microscopy tests;

FP6:
1.Project"Completely flexible and reconfigurable fixturing of complex shaped workpieces with magnetorheologic fluids";
2.Acronym;MAFFIX
3.Type project: Co-operative Research Project-CRAFT
4.Start year;2006; End year:2008;
5.partner/contractor;

FP5:

Other international Project:
1.Project "Development of technology controlling hyper-organised structure for nano-cristalline aluminum alloys"
2.Acronym:NANOALSTRUCT;
3.Type project:STREP;
4. start year:2006; End year:2008;
5.partner/contractor;

ICIT FIBRESIN

Independent centre: *No*
Parent Organisation: *SME - PRIVATE*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Technological development*
Oficial contact person of the "centre", Name: *Mss POPA NICULINA*
Position (function): *CHEF OF RESERCH DEPARTAMENT*
E-mail: *popaniculina@yahoo.com; fibresin@yahoo.com*
Phone: *+40-232-233837*
Fax: *+40-232- 437389*
Web page: *no*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
Employers -39; Researcher 6
main activity - scientific research
- micropilot production
- services

auxiliary activity - technical assistance in the field
- studies and applications in the field

Relevant equipments:
- plant for yarn and fibres;
- plant for polymer composites;
- glass equipment for organic synthesis;
- laborator equipment

Scientific and technological services provided:
- physico - chemical analysis
- workability tests
- other services

FP6:
Furan and lignin based resins as eco - friendly and sustainable solutions for durable wood, panel & board and design products - ECOBINDERS, 2005-2008

FP5:

Other international Project:

Technical University Iasi, Chemical Engineering Department

Independent centre: *Yes*
Parent Organisation: *Technical University of Iasi*
Position inside parent organisation: *Department of an Institute*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Popa Ionel Marcel*
Position (function): *Chief of Chemical Engineering Department*
E-mail: *mipopa@ch.tuiasi.ro, impopa@yahoo.fr*
Phone: *0040-232278683*
Fax: *0040-232271311*
Web page: *www.ch.tuiasi.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:

Human resources and competence description:
10 Ph.D and 5 senior researchers in nanomedicine fields.
Synthesis and characterisation of micro and nanoparticles for medical usages

Relevant equipments:
HPLC, FTIR, AFM, DSC, Electronic Microscopie,
DRX, Thermogravimetric Balance, UV/vis, nanosizer, laboratory equipments for nanoparticles synthesis

Scientific and technological services provided:
Synthesis and physical characterisations of nanoparticles and nanocomposites.

FP6:

FP5:

Other international Project:

Research team for nanobiotechnology

Independent centre: *No*
Parent Organisation: *AUREL VLAICU University*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Prof.Dr. Michaela Dina Stanescu*
Position (function): *Professor*
E-mail: *stanescu@uav.ro*
Phone: *0745255342*
Fax: *040257280070*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Environment (including Climate Change)
- Basic Research

Interest in technological platforms:

Human resources and competence description:
Multidisciplinary team with: chemists, biochemists, textile engineers having Ph D in the area and postdoctoral stages abroad.

Relevant equipments:
MALDI TOF for mass spectrometry, Ultrasound devices, UV-Vis, IR Spectrophotometers, HPLC

Scientific and technological services provided:
Studies and analytical results concerning food and textile products. Biotechnology for wastewaters and textile residues.

FP6:
COST 847 Textile Quality and Biotechnology

FP5:

Other international Project:
COST 847 Textile Quality and Biotechnology 2000-2005, in MC and WG 1,4,5.

CARPATH - Center for Applied Reasearch in Physics and Advanced Technologies

Independent centre: *No*
Parent Organisation: *"Al.I. Cuza" University, Faculty of Physics*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Professor Alexandru STANCU, Director CARPATH*
Position (function): *Director CARPATH*
E-mail: *ALSTANCU@UAIC.RO*
Phone: *+(40) 232 201175*
Fax: *+(40) 232 201205*
Web page: *http://stoner.phys.uaic.ro/carpath.html*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:

Human resources and competence description:
Groups: Magnetism; Dielectrics; Modeling&Simulation; Plasma physics
Staff:6 professors, 8 postdocs&researches, 8 Ph.D. students, 8 M.Sc. students, 4 technical staff
Presentation groups: Magnetism and Modeling&Simulation

Major research area: Physical and phenomenological modeling of magnetization processes in various materials.

Relevant equipments:
Equipment, computing, software, other facilities:
• AGM magnetometer (10 nemu sensitivity, 0.1 s per measurement, 10K-1000K temperature range, 1.4 T max. field) – best suited for the study of hysteretic processes (FORC and SORC measurement)
• High frequency measurements (up to 50GHz) – to be installed until the end of the year
• 200 processors computer cluster – to be installed until the end of the year
• SUN Blade workstation – 10GB memory, COMSOL (finite element software), cluster of 20 processors
• Software for micromagnetic simulations, Ising, Metropolis-Monte-Carlo, Preisach, Jiles, other models

Scientific and technological services provided:
Modelling & simulation
of various magnetic and multiferroic systems;
switching and relaxation in nanostructured materials;
micromagnetic and phenomenological simulation of materials;
finite element simulations of devices;
size effects in magnetic & ferroelectric particles.

Complex characterization of nanostructured materials
interaction and coercivity distribution in ferromagnetic and ferroelectric materials;
First-order Reversal Curves diagram applied in various hysteretic processes (ferromagnetic, ferroelectric, light, temperature or pressure induced);
characterization of spin-transition materials;
reversible susceptibility and ferromagnetic resonance in nanomagnetic structures (nanoparticles, MRAMs, SAF structures, etc.)

FP6:
• CARPATH is partner in the project: Molecular Approach to Nanomagnets and Multifunctional Materials MAGMANet (2005-2009). Network of Excellence – FP6

FP5:

Other international Project:

Research and Development National Institute for the Biologically Sciences - Bioanalysis Centre

Independent centre: *No*
Parent Organisation: *Centre of Bioanalysis*
Position inside parent organisation: *Department of an Institute*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Radu Lucian Gabriel*
Position (function): *Head of the Centre*
E-mail: *gl_radu@dbio.ro*
Phone: *+ 40-1-223.90.70; 2200900*
Fax: *+40-1-223.90.70*
Web page: *bioanaliza.dbio.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- PLANTS FOR THE FUTURE
- INNOVATIVE MEDICINES FOR EUROPE

Human resources and competence description:
Research team has: 15 scientists - 10 with a senior scientist position, 5 of them being young PhD students and masters and 3 specialized technicians.
PhD Gabriel-Lucian Radu - the head of the centre - has a great experience in a wide range of the research from 25 years, sustained by his didactic activity – as a universitary professor and PhD coordinator on bioanalyse – and by a considerable management expertise, according to the large number of the national and bilateral projects for that he acted as a coordinator.
The stuff of the Centre of Bioanalysis has a great experience in carrying out of bioanalytical, specific methods and techniques for substance of pharmaceutical and biotechnological interest, to obtaining the highly purified, biologically active substances, the characterization of the substances, products and processes of biological nature, research of the biologically active substances with the purpose of its application in practice, biologic compounds extraction for the biomaterials and bio-prepared

Relevant equipments:
spectrofluorimeter Perkin Elmer L45, FTIR spectrometer Tecator 27 Bruker, UV-VIS spectrophotometer Jasco V540, chromatography HPLC Dynamax 80, capillary electrophoresis CE Agilent, electrochemistry Princeton Applied Research EG&G M270

Scientific and technological services provided:
analytical characterisation of biological active compounds; antioxidant activity evaluation; bioelectroanalysis;

FP6:
"Ready to eat food breakfast and sport activity with high content of nutraceutics preventing disease and promoting public health" (Nutra-Snack), 2005-2008 - partner.

FP5:

Other international Project:

Centre for Technology Transfer in Advanced Materials

Independent centre: *No*
Parent Organisation: *National R&D Institute for Non-ferrous and Rare Metals*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Technology transfer/Innovation*
Oficial contact person of the "centre", Name: *Dr Radu Robert Piticescu*
Position (function): *Director of the Centre*
E-mail: *rpiticescu@imnr.ro*
Phone: *0040 21 3522046*
Fax: *0040 21 3522045*
Web page: *www.avanmat.imnr.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Transport (including Aeronautics)
- Security and Space

Interest in technological platforms:
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- PHOTOVOLTAICS
- EUROPEAN SPACE TECHNOLOGY PLATFORM (ESTP)
- FUTURE TEXTILES AND CLOTHING (ETP-FTC)

Human resources and competence description:
1 director of the Centre
1 specialist in IT networks
1 specialist in IPR
1 specialist in standardisation of materials
1 specialist in economical studies
1 technological auditor

Relevant equipments:
Computer network
equipment for IT conferences
audio-video equipment for conferences and workshops

Scientific and technological services provided:
Consultancy in IPR, standards, pre-feasibility studies, prognosis.

FP6:
IP 026467- Direct Ultraprecision Manufacturing MANUDIRECT

FP5:

Other international Project:

Simulation, Modelling and Computer Aided Design Lab

Independent centre: *No*
Parent Organisation: *IMT Bucharest*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Raluca Muller*
Position (function): *senior researcher*
E-mail: *ralucam@imt.ro*
Phone: *+ 40 21 490 82 12/ext 27*
Fax: *+ 40 21 490 82 38*
Web page: *www.imt.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
The team:2 PhD, 2 PhD students, 2 early stage researcher (MS students) and 3 reserachers with background in: mathematics, physics, mechanics and microelectronics.
is involved in research, education and training in simulation, modeling and CAD for micro- nano structures and materials, microsystems, microfluidics
Expertise in: structural analysis, mechanical, thermal analysis, electric and magnetic field analysis, coupled field analysis of MEMS and MOEMS; simulation and design of microfluidic components for biomedical applications, neural networks, cellular automata.

Relevant equipments:
Work station;
Multiprocessor workstation
COVENTORWARE 2004:
Design Modules(Mask Design, Process Editor, 3D construction and mesh) and Simulation Modules:
ANSYS 5.6

Scientific and technological services provided:
-CAD AND SIMULATION for microstructures and microsystems: Structural analysis;Thermal analysis;Electro-thermo-mechanical and piezoelectric analysis;Fluid (thermo)dynamics, electrokinetics, diffusion;Electromagnetic and microfluidics analysis for biomedical application

FP6:
Design for Micro & Nano Manufacture -PATENT
(Packaging, Test and Reliability Engineering in Micro & Nanosystem Technologies)
2004-2007

FP5:

Other international Project:

National Institute for Research and Development in Chemistry and Petrochemistry -ICECHIM

Independent centre: *No*
Parent Organisation: *ICECHIM*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Rodica-Mariana Ion*
Position (function): *Department Manager*
E-mail: *irma@pcnet.ro*
Phone: *224.88.70*
Fax: *224.88.70*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:

Human resources and competence description:
3 Doctors in science
2 Ph.D.student
1 master student

Relevant equipments:
Atomic emission spectrometer with coupled plasma coupled ICP-OES, Varian
Spectrophometer UV-VIS Specord M-400, Carl Zeiss Jena
X-ray difractometer, DRON 2,O, TEHSNAB EXPORT
X-ray fluorimeter MINIPAL, Phillips

Scientific and technological services provided:
Physical Chemical characaterization of different materials
Synthesis and characterization of nanodrugs

FP6:

FP5:

Other international Project:
COST D20 , UE finnancing NEW MOLECULAR SYSTEMS WITH THERAPEUTIC APPLICATIONS IN PHOTODYNAMIC THERAPY OF CANCER AND MICROBIAL INFECTIONS
2002-2006, Principal Coordinator

Nanostructured Materials Laboratory

Independent centre: *No*
Parent Organisation: *National R&D Institute for Non-ferrous and Rare Metals*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Roxana Mioara Piticescu*
Position (function): *Senior Researcher*
E-mail: *roxana@imnr.ro*
Phone: *0040 21 3522046*
Fax: *0040 21 3522048*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Security and Space
- Basic Research

Interest in technological platforms:
- HYDROGEN AND FUEL CELLS (HFP)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- PHOTOVOLTAICS
- FUTURE TEXTILES AND CLOTHING (ETP-FTC)
- MANUFUTURE - Future Manufacturing Technologies

Human resources and competence description:
1 PhD in Materials Science and Engineering
1 PhD in Applied Physical Chemistry
1 PhD student in Materials Science and Engineering
1 PhD student in Applied Physical Chemistry
2 Senior Researchers in the field of Sdvanced Materials
2 technicians

Relevant equipments:
- Continuous laboratory plant for coprecipitation and sol-gel reactions;
- High pressure computer-controlled laboratory hydrothermal / electrochemical system;
- spin coater;
- Laboratory chamber furnace: 1800oC, , RHF 17/3E, CARBOLITE, UK-2000;
- laboratory tubular furnace 1700 deg.C, in air, controlled atmosphere and vacuum;
- Vacuum sintering furnace, 2000oC, DEGUSSA;
- continuous counter current furnace, 1100oC;
- powder omogenizer, TURBULLA, Sweden;
- ball milling, PASCALL Model no.9, England-2001
- digital pH-meters, HANNA Instruments-2001;
- hydraulic presses, Meyer, Germany;
- UV-VIS spectrometer computer-controlled;
- ICP Spectroflame

Scientific and technological services provided:
- Powders characterisation according ASTM methods;
- Complete chemical analysis of materials;
- Interfacial corrosion studies via electrchemical methods;

FP6:
- SOLFACE-OPTONANOS, Infrastructure Project 2004-2006, coordinator CNRS/PROMES France;
- IP 026467 Direct ultraprecision Manufacturing MANUDIRECT (2006-2010)

FP5:
- G5RT-CT-2001-05024 European Network “Polar Electronic Ceramics” (POLECER), 2003-2007
- GRD1-99-1-1008V-1 “Microscale fabrication of functionally graded materials” 2002-2004
- G5ST-CT-2002-50328 Craft METMICOATED (2003-2005)

Other international Project:
- NATO SfP 974054 “Zirconia Nanomaterials”, 2000-2003, financed by NATO Scientific Affairs Division;
- European PHARE Technology Transfer and Quality Management 1135, January-December 2000;
- COST 525“Advanced Electroceramics: Grain boundary engineering" (2004-2005), financed by ESF;
- COST D30 “High Pressure Synthesis of Nanomaterials”, (2004-2006), financed by ESF;
- ECO-NET project "Modelling and verification of electrochemical and electronic properties of multufinctional nanomaterials" 2005-2006, financed by EGIDE, France, with participation of partners from France, Romania, Poland and Latvia

BIONANONET Network

Independent centre: *No*
Parent Organisation: *R&D National Institute of Microtechnology*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Mrs roxana VASILCO*
Position (function): *specialist*
E-mail: *roxanav@imt.ro*
Phone: *040-21-4908412*
Fax: *0040-490.38.82*
Web page: *www.imt/ro/BIONANONET*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Security and Space

Interest in technological platforms:

Human resources and competence description:
(bio)chemistry (organic, inorganic, analytical & instrumental, polymers); physics (surface, solid state, lasers)
genomics & proteomics, cell biology; microbiology
pharmacology, oncology, neurophysology
microengineering
computational intelligence (genetic algorithms, fuzzy logic, artificial neural networks, cellular automata, molecular computing,hardware architecture relying on computational intelligence)
biomimetics
PhDs; MSs, experts

Relevant equipments:
complex chemical & physical analysis (atomic level)
microfabrication (clean room standards)
genetic & proteic analysis
IT facilities (standard & dedicated)

Scientific and technological services provided:

FP6:
Advanced Handling & Assembly in Microtechnology, ASSEMIC,2004-2005, partner

FP5:
a Network for Bringing NANOtechnologies TO LIFE, Nano2Life,1-NMP, 2004-2006, associate partner

Other international Project:
NANOSTRUCTURED AND FUNCTIONAL POLYMER-BASED MATERIALS AND NANOCOMPOSITES, NanoFUNPoly, 3-NMP, 2002-2005, partner

Research Department - U.C.M. Resita S.A.

Independent centre: *No*
Parent Organisation: *U.C.M. Resita S.A.*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Sigrid Jianu*
Position (function): *Head of Department*
E-mail: *sjianu@ucmr.ro*
Phone: *+40-255-207894*
Fax: *+40-255-230560*
Web page: *www.ucmr.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
The Research Department of U.C.M. Resita S.A. includes a number of 28 co-operators, 16 of them graduated technical universities and are authenticated researches in the domain of hydraulic machinery. Two person of the department are Ph.D, one person is preparing to defend the dissertation. The personnel of the department also includes well prepared and experienced technicians in the domain of design and testing hydraulic machinery.

Relevant equipments:
Own test stands (including guarantee test stand for turbine models, operating according to CEI code prescriptions)
Different measurement devices for field tests in hydroelectric power plants
Computer network and corresponding peripherics
CAD, CFD, CAE licensed software

Scientific and technological services provided:
Research and design of hydraulic turbine models, using modern approaches and computer aided techniques (real-time optimisation by means of CFD and CAE software packages)
Performance tests for hydraulic turbine models and microturbines in own test stands
Field tests in hydro power plants

FP6:

FP5:

Other international Project:

research group

Independent centre: *No*
Parent Organisation: *Babes-Bolyai University*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Simona Pinzaru*
Position (function): *Associate professor*
E-mail: *scinta@phys.ubbcluj.ro*
Phone: *+40-264-405300*
Fax: *+40-264-591906*
Web page: *www.phys.ubbcluj.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Food, Agriculture and Biotechnology
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Basic Research

Interest in technological platforms:

Human resources and competence description:
Research group with competence in nanophotonics, nanobiomaterials, vibrational techniques used to analyse, detect, control and monitor the molecular species of pharmaceutical, biomedical and environmental interest.

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

Center of Urologic Surgery Dialisys and Renal Transplantation, Fundeni Clinical Institute

Independent centre: *No*
Parent Organisation: *Fundeni Clinical Institute*
Position inside parent organisation: *Department of an Institute*
Main activity of this centre: *Production*
Oficial contact person of the "centre", Name: *Prof Sinescu Ioanel*
Position (function): *Director*
E-mail: *txfundeni@easynet.ro*
Phone: *021.300.75.70*
Fax: *021.300.75.70*
Web page: *www.urologiefundeni.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

"Intelligent Embedded Systems" research group

Independent centre: *No*
Parent Organisation: *North University of Baia Mare*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Stefan ONIGA*
Position (function): *Head of Electronic and Computer Engineerig Department*
E-mail: *onigas@ubm.ro*
Phone: *+40-729-858275*
Fax: *+40-262-276153*
Web page: *http://ea.ubm.ro/ee/index_en.html*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:
- EMBEDDED SYSTEMS (ARTEMIS)

Human resources and competence description:
The research group is made up of electronic, electromechanic, physicist, and IT engineers with expertise/ interest in the following sectors /areas:
- Artificial neural network implementation in FPGA
- Smart sensors
- Adaptive interfaces
- Smart home
- FPGA based electronics
- Digital neural network based smart devices
- Embedded systems

The main research activity is focused on artificial neural networks implementation in FPGA using the System Generator tool for Simulink (Matlab), developed by Xilinx Inc. Starting from these, we have developed following applications:
- An intelligent digital system with FPGA circuits that is able to learn and auto reconfigures in order to process data from chemical sensors with an appropriate neural network
- Hand gesture recognition system using ANN implemented in FPGA, which uses a data glove equipped with optical fiber flex sensors, a Feed-Forward ANN for input data preprocessing and a simple competitive ANN for classification task.
- data processing system for myoelectric signals, based on neural networks
- smart interfaces with learning and adaptive capability where the key element of the learning and adaptive behavior are ANN blocks, implemented in FPGA.

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

"Intelligent Embedded Systems" research group

Independent centre: *No*
Parent Organisation: *North University of Baia Mare*
Position inside parent organisation: *Research Group*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Stefan ONIGA*
Position (function): *Head of Electronic and Computer Engineerig Department*
E-mail: *onigas@ubm.ro*
Phone: *+40-729-858275*
Fax: *+40-262-276153*
Web page: *http://ea.ubm.ro/ee/index_en.html*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies

Interest in technological platforms:
- EMBEDDED SYSTEMS (ARTEMIS)

Human resources and competence description:
The research group is made up of electronic, electromechanic, physicist, and IT engineers with expertise/ interest in the following sectors /areas:
- Artificial neural network implementation in FPGA
- Smart sensors
- Adaptive interfaces
- Smart home
- FPGA based electronics
- Digital neural network based smart devices
- Embedded systems

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

National Research and Development Institute on Occupational Safety

Independent centre: *No*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Mrs Steluta Elisabeta NISIPEANU*
Position (function): *Head of Chemical Risk Department*
E-mail: *snisipeanu@protectiamuncii.ro*
Phone: *00 40 21 312 26 77*
Fax: *00 40 21 315 78 22*
Web page: *www.protectiamuncii.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:
max.150 employees, researchers and administrativ staff

Relevant equipments:
1. Spectrophotometer visible, with cuvettes for UV and Vis
2. Atomic absorption spectrophotometer with air-acetylene, acetylene – nitrogen protoxide and metals hollow cathode lamps
3. gas-chromatograph with FID (hydrocarbons, COV), integrator and capillary column,ECD (organochlorinated pesticides)
4. flue gas analyser for industrial burning fuels
5. pumps for sampling
6. sensor pH
7. pH-meter portable
8. analytic balances
9. oven
10. sand bath
11. water bath
12. magnetic mixer
13. distillatory
14. thermo-anemometer
15. electronic thermometer
16. titratory
17. personal monitory for the measurement in real time of dust concentration, inclusive breathable pdR-1200 ESM
18. dispensers

Scientific and technological services provided:
occupational safety, chemical risk assesment, chemical analyses,

FP6:

FP5:

Other international Project:

Laboratory of Chemical Thermodynamics

Independent centre: *No*
Parent Organisation: *Institute of Physical Chemistry*
Position inside parent organisation: *Laboratory*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Dr Tanasescu Speranta*
Position (function): *Head of the Laboratory, Ph.D. Senior Researcher*
E-mail: *stanasescu@chimfiz.icf.ro*
Phone: *+40 21 3167912*
Fax: *+40 21 3121147*
Web page: *www.icf.ro/termodinamica.html*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Basic Research

Interest in technological platforms:
- HYDROGEN AND FUEL CELLS (HFP)
- EUROPEAN NANOELECTRONICS INITIATIVE ADVISORY COUNCIL (ENIAC)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)

Human resources and competence description:
The Laboratory of Chemical Thermodynamics from the Institute of Physical Chemistry “I.G. Murgulescu” of the Romanian Academy is a leading laboratory for basic and applied thermodynamic research. Head of the Laboratory is Dr. Tanasescu Speranta. The research team is composed of 15 researchers of which 7 are Ph.D. and 8 are Ph.D. students; five senior scientists have been conferred scientific awards. The center’s members are drawn from chemistry, biochemistry, materials and engineering backgrounds and have (especially the senior researchers) a significant cross-disciplinary experience.

Relevant equipments:
-EMF measurements and coulometric titration equipment(Digital Voltmeter Keithley 197A; Potentiostat-Galvanostat Tacussel PJT 35-2)
-Equipment for pressure measuring(Active Pirani Gauge, Active Inverted Magnetron Gauge, Active Gauge Controller - Edwards High Vacuum International)
-Vacuum Furnace Centurion VPM (up to 1200 oC
-High Temperature Furnace Termolyne 21100 (up to 1200 oC)
-Differential Scanning Calorimeter (DSC-1B) (25-700 0 C)
-Calvet microcalorimeter with microbombe of combustion
-Calvet calorimeter 25-400 0 C
-Equipment for acquisition and processing of data (Computers, Softwares)
-Refractometer Abbe (Carl Zeis Jena)
- Picnometer with capilar KIMAX (Kimble Glass Inc.) USA
-Catetometers: Phylatex- Physik-Gerate, GDR (± 0.1 mm); Griffin & George Ltd. London 4214, Gr.Britain (± 0.01 mm)

Scientific and technological services provided:
Thermodynamic characterization of the oxidic compounds, nano and micromaterials, metals, alloys, multicomponent materials with different applications
DSC measurements for determination of the specific heat, transition enthalpies, phase transformations in controlled atmosphere Thermochemical characterization of the biological interest compounds and of the multifunctional nanomaterials

FP6:
- Partner in EU project on “Improving the understanding of the impact of nanoparticles on human health and the environment”, ImPart, CA, Programme: Priority 3 – NMP (Nanotechnologies and nano-sciences, knowledge-based multifunctional materials and new production processes and devices), 2005-2007

FP5:
- Partner in EU “Joule II Programme”, Sub-Programme “Energy Conservation and Utilisation” (Contract JOU 2-CT 92-0063 “New SOFC Materials and Technology”, (Contract JOU 2-CT 92-0063 “New SOFC Materials and Technology”, 1993-1995, Supplementary Contract ERBCIPD CT930315, 1/4 1994 to 31/12 1995)

Other international Project:
- EU COST Action 525: Advanced Electroceramics: Grain Boundary Engineering, the Project “Structural and dielectric studies of incipient ferroelectrics”(2004-2005), associate partner

optoelectronics 2001

Independent centre: *Yes*
Parent Organisation: *optoelectronics 2001*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Technological development*
Oficial contact person of the "centre", Name: *Mr teodor necsoiu*
Position (function): *general manager*
E-mail: *tnecsoiu@optoel.com*
Phone: *(4021)4574498*
Fax: *(4021)4574204*
Web page: *www.optoel.com*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Health
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Security and Space
- Basic Research

Interest in technological platforms:
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- WATER SUPPLY AND SANITATION (WSSTP)
- PHOTOVOLTAICS
- ROAD TRANSPORT RESEARCH ADVISORY COUNCIL (ERTRAC)
- INNOVATIVE MEDICINES FOR EUROPE
- EUROPEAN SPACE TECHNOLOGY PLATFORM (ESTP)
- MANUFUTURE - Future Manufacturing Technologies

Human resources and competence description:
yes

Relevant equipments:
optoelectronics equipments, UV VIS IR

Scientific and technological services provided:
laseri and termovision

FP6:
subcontractor fp6

FP5:
subcontractor fp5

Other international Project:
coordinator EUREKA

Nanostructures and Functional Materials Center (CNMF)

Independent centre: *No*
Parent Organisation: *Dunarea de Jos University of Galati*
Position inside parent organisation: *Autonomous Centre*
Main activity of this centre: *Scientific research*
Oficial contact person of the "centre", Name: *Prof Viorica MUSAT*
Position (function): *Director*
E-mail: *vmusat@ugal.ro and vio52musat@yahoo.com*
Phone: *0744541031*
Fax: *40 2 36 460754*
Web page:

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:
- Food, Agriculture and Biotechnology
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Basic Research

Interest in technological platforms:
- EUROPEAN NANOELECTRONICS INITIATIVE ADVISORY COUNCIL (ENIAC)
- NANOMEDICINE (Nanobiotechnologies for Medical Applications)
- PHOTOVOLTAICS
- SUSTAINABLE CHEMISTRY
- MOBILE AND WIRELESS COMMUNICATIONS (eMobility)
- EMBEDDED SYSTEMS (ARTEMIS)

Human resources and competence description:
Number of full-time academic staff members of the Center is 13 (5 preparing the PhD thesis), PhD Students 2, master students. The members of the center have expertise and want to develop research in the following fields:
- Wet methods preparation (co-precipitation, sol-gel, electro-deposition) of oxide and (nano) composite thin powders, thin films and coatings;
- PVD and CVD preparation of thin films and coatings;
- Thin films (Sb2O3, Sb2S3, GaAs, intrinsic and doped ZnO) for opto and microelectronics;
- Intelligent oxide (ZnO, Co2O3) and SiO2-based nanocomposite materials for gas sensors, or hybrids thin films for liquids sensing applications (E-nose and E-tongue);
- Intelligent metallic materials (Shape Memory Alloys);
- Oxide (Cr2O3, TiO2) and Al2O3, Mo2O3, Zr2O3 or P-doped cupper based or nickel-based composite coatings with chemical and mechanical functions;
- Biomaterials: biological (fluorescent) markers, antioxidants, encapsulated biomolecules, biocompatible coatings;
- Kinetics of processes in heterogeneous systems.

Relevant equipments:
1. Thin films and coatings deposition: PVD, CVD, Dip-coating, Electrolyzer;
2. Organic and colloidal synthesis: Gas-chromatograph -HP5840, Liquid-chromatograph -HPLC, Electrophoresis equipments, Centrifugal machines, Microwave furnace-Panasonic 900W, Microwave baths, Microwave generators, UV lamp, Viscousmeters: Oswald, Uhbelode, Rheotest, Hoppler; Consist meter Hoppler,
3. Morphological and Structural characterization: SEM- Jeol 10, X-Ray Diffraction -DRON 2, UV-VIS and IR Spectrophotometers;
4. Physical-chemical characterization: pH-meters, Conductometers, potentiometers
5. Thermal characterization: Derivatograph-MOM 3 with PC interface.
6. Optoelectronic measurements: Interferential microscope-MII-4, Oscilloscope digitale-HM305-2, Electrometer TR-501, Electronic Ohmmeters-Sony, Punte RCL-ELC 130, Punte RCL (DC, AC)

Scientific and technological services provided:

FP6:
2. "Food Safety and Quality monitoring with Microsystems (GOODFOOD)", Contract Nr. IST-1-508774-IP.VI Program Marco /Comisión European Information Society Technologies(IST), 2004-2007 (PhD grant).

FP5:
1. "Integrated sensor system for the organoleptic characterisation of wine", Proiectul CRAFT-1999-70722. Programul: “Quality of Life and Managment of living resources” Comisión Europea/Dirección General VI, 2002-2003 (PhD grant).

Other international Project:
3. "Sol-gel preparation of ceramic oxide with relevant electrical properties", NATO Science for Peace, 2002-2003.
4."Sol-Gel preparation of nanostructured gas-sensitive films", NATO Visiting Expert PDD(CP)-CBP.EAP.EV 982079 / 2005 (NATO priority:IA Rapid detection of chemical agents; IB Novel and rapid method of detection-chemical sensors), 2005-2006.

National Institute for R&D Chemical Pharmaceutical

Independent centre: *Yes*
Parent Organisation:
Position inside parent organisation:
Main activity of this centre: *GOV: Governmental*
Oficial contact person of the "centre", Name: *Mrs Zonia Angela*
Position (function): *Engineer*
E-mail: *anngissa@hotmail.com*
Phone: *021 322 29 16*
Fax: *021 322 29 17*
Web page: *www.iccf.ro*

Interest for future themes (priorities for cooperative research) in the future Framework programme (FP7) of EU:

Interest in technological platforms:

Human resources and competence description:

Relevant equipments:

Scientific and technological services provided:

FP6:

FP5:

Other international Project:

Summary

Research Centres