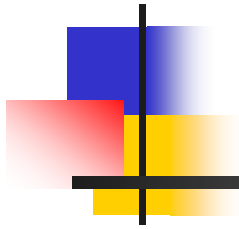


Networks of excellence and integration in ERA



Dan Dascalu
IMT-Bucharest



Basic concepts

- ERA: the "***common market***" of European research
- The FP6 NoEs: the "***virtual institutes***" of research in Europe



Content

- NoEs as a tool for integration in ERA
- Experience of FP6, perspectives for FP7
- Romanian experience in participation to FP6, and results related to NoEs
 - NMP and related topic in IST
- Networking in Romania is promoting European cooperation
- Taking the initiative
- CEEX – preparing for FP7

Networks of Excellence: FP6



- Joint research programmes.
 - Missing knowledge
 - Internal calls
- Support activities
 - Including dissemination of excellence outside network
- Interaction with industry
- Perspectives of integration
 - University research groups

Networks of Excellence:

FP7

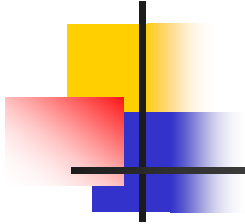


- Support to joint research programmes implemented by a number of research organisations integrating their activities in a given field, carried out by research teams in the framework of longer term co-operation.
- The implementation of these joint programmes will require **a formal commitment from the organizations** integrating part of their resources and their activities.



Romanian experience

- Joining consortia
- A two step evaluation: associate partners (last in, first out)
- Cost of labour
- Effective distribution of money
- Financial support from national authority for research
- Positive experience of MATNANTECH



Contribution from MATNANTECH (New materials, micro- and nanotechnologies) RTDI programme

(a few slides)

*Courtesy of Executive Director of MATNANTECH,
Corneliu Trisca-Rusu*

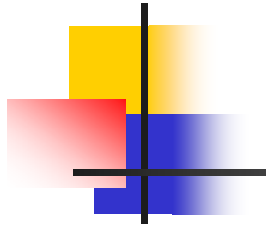
D. Dascalu "NoE and ERA",
CNCSIS Conf., 12-14 May 2005



Promoting integration in ERA

- Micro- and nanotechnology subprogrammes (correlated with EU programmes)
- Infrastructures
 - Various networks
 - Virtual centres of excellence
 - CENOBITE
 - NANOMATFAB

Romanian MATNANTECH R&D Programme



New materials

Subprogram 1: Composite materials

Subprogram 2: Smart materials

Subprogram 3: Biosubstances and biomaterials

Subprogram 4: Advanced materials with electrical, optical, magnetic and thermomechanic properties

Subprogram 5: Materials for process engineering, chemical and environmental applications

Subprogram 6: Powders synthesis and characterization

Micro, Nanotechnologies

Subprogram 7: Micro and nanoelectronics and optoelectronics

Subprogram 8: Micro and nanotechnologies for interfaces, transducers and microsystems

Subprogram 9: Nanostructured materials, micro and nanostructures

Support actions, Networks, centers

Subprogram 10: Support actions, Thematic networks, centers of excellence



ERA-NET scheme

ERA-NET is a new scheme designed to support the long-lasting coordination of European research programmes across national boundaries, aimed at the funders and managers of national and regional research programmes. The ERA-NET scheme represents a significant step towards the creation of a fully functioning European Research Area



MNT ERA-NET

Contract no.

ERAC-CT-2003-510226

(January 2004 – December 2007)

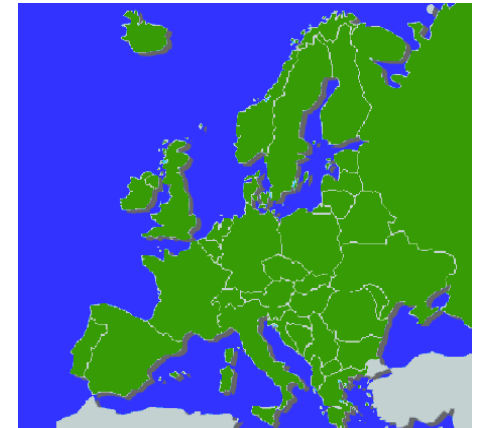


MNT ERA-NET:

**From Micro- and
Nanoscale Science to
New Technologies for
Europe**

Participants

- EUROBUGOIA (Basque Government)
- EI Enterprise Ireland (Ireland)
- SENTER (Netherlands)
- TEMAS (Switzerland)
- RCN The Research Council of Norway
- VDI/VDE-IT (Germany)
- VINNOVA (Sweden)
- FFF (Austria) – project management
- Austrian Space Agency (ASA)
- TEKES (Finland)
- **UPB-MATNANTECH (Romania)**
- Ministry of Wallonia Region (Belgium)
- Ministry of Education, Science and Sports (Slovenia)
- Ministry of Scientific Research and IT (Poland)
- Conseil Regional Midi-Pyrenees (France)



Focus (1)



1. Micro(system)technology

- Medicine devices (e.g. stents)
- Optical devices
- Energy (energy storage, photovoltaic, fuel cells, batteries)
- Actuators and sensors
- Instrumentation (AFM, holographic instruments, calibration)
- MEMS, MOEMS
- Manufacturing (machining, LIGA, nano lithography, nano structuring, nano tribology)
- System integration





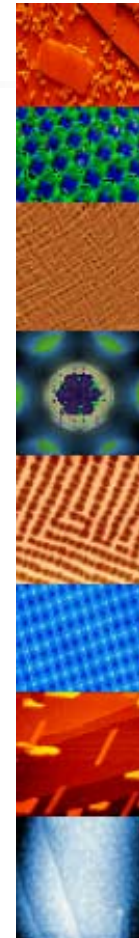
Focus (2)

2. Materials

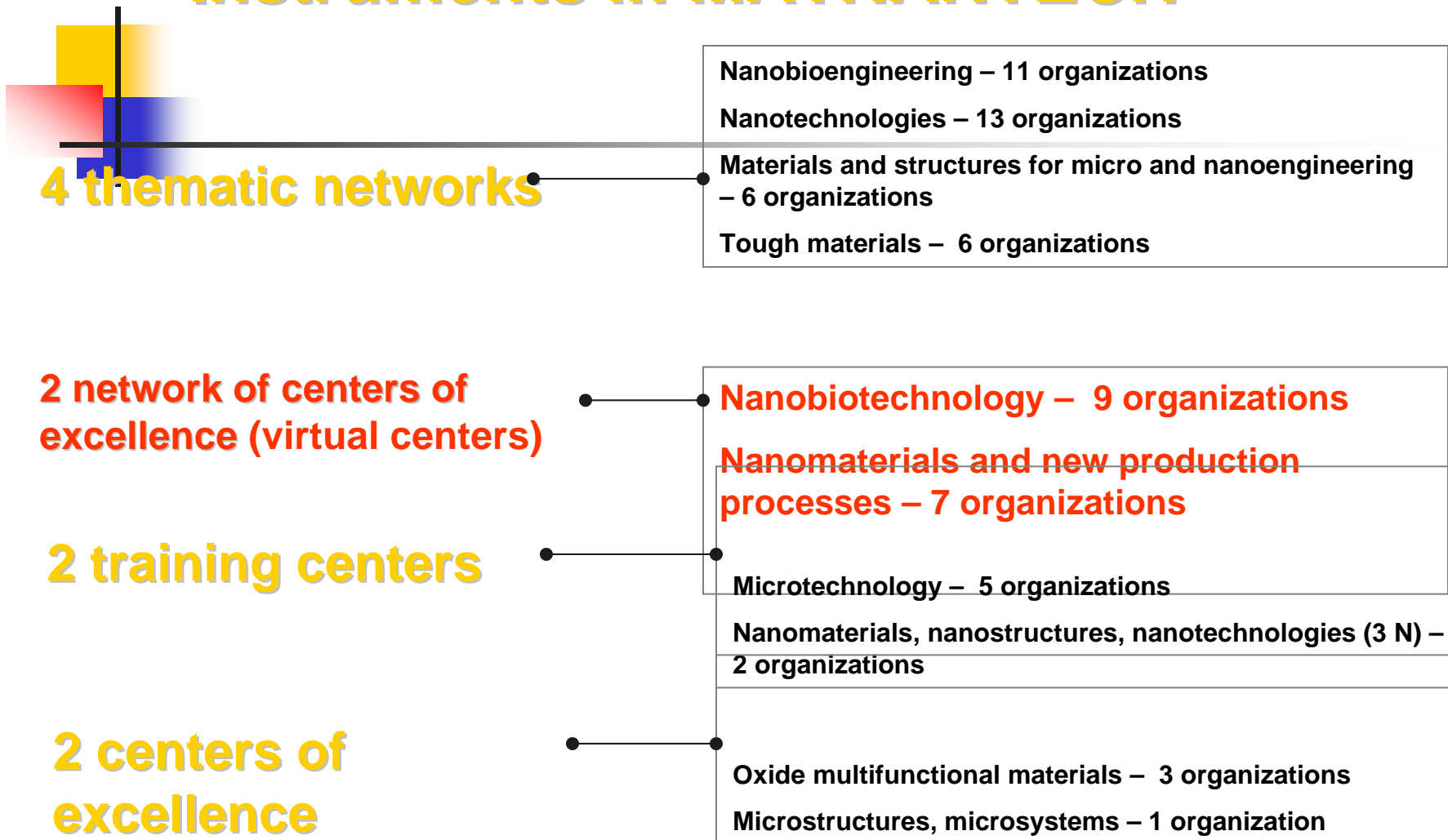
- With the aspect of application in microtechnology (e.g. sensors)

3. Nanotechnology only insofar:

- Chemistry in the aspect of material design
- High-tech material especially composites, metal, but not wood, textile...
- Nanosystems NOEMS



Instruments in MATNANTECH





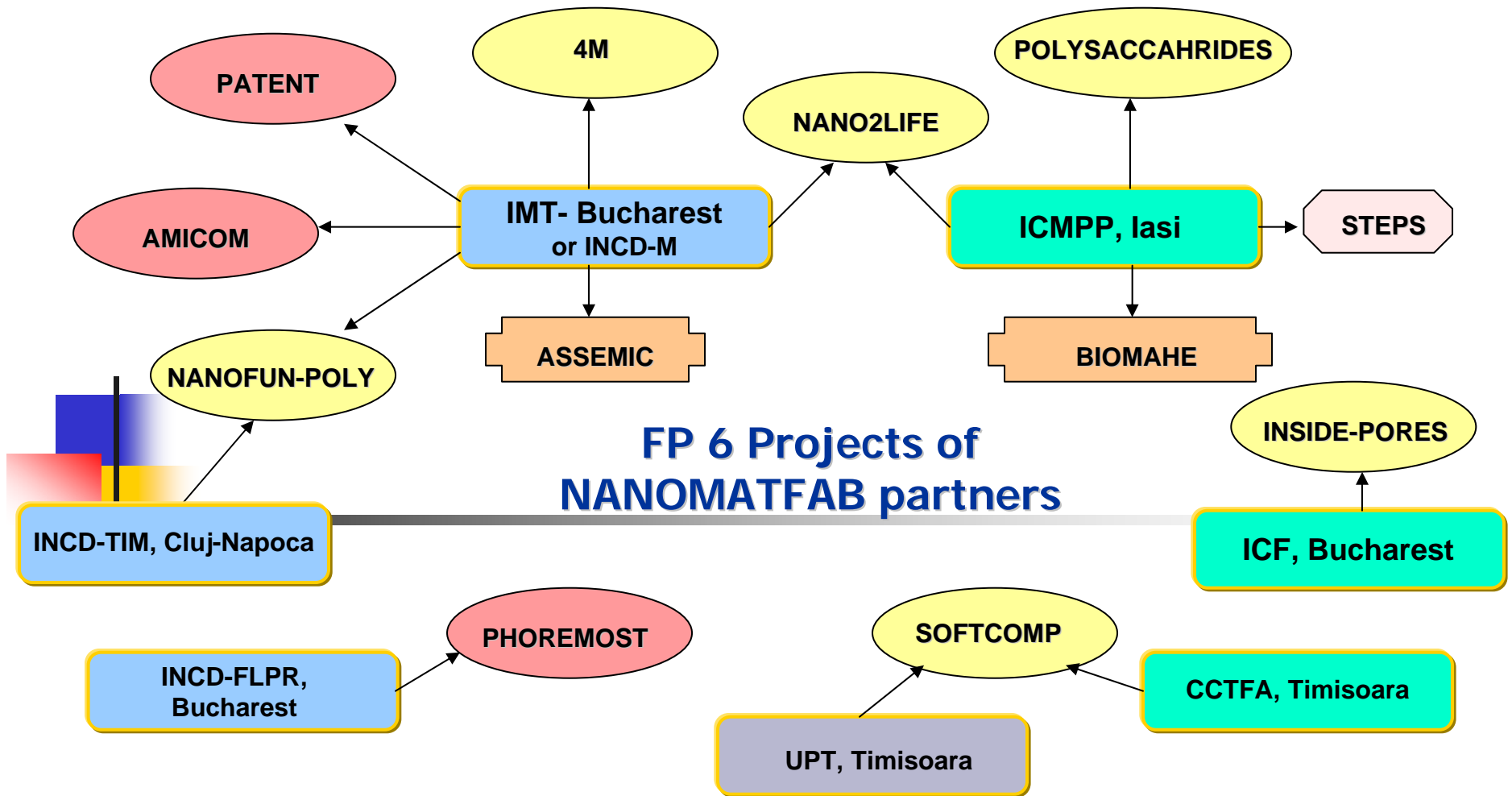
Anticipating NoEs!

- CENOBITE and NANOMATFAB:
- networks of centres of excellence
 - Cordis, February 2003, CENOBITE
- Activities
 - Equipments
 - Events
 - Visits of foreign scientists
- Management and integration: three levels
 - Researchers from various groups
 - Research groups from various institutions
 - Top management of institutions



NANOMATFAB

- National Institute for R&D in Microtechnologies IMT-Bucharest
Coordinator
- "PETRU PONI" Institute of Macromolecular Chemistry, Institute of Excellence of the Romanian Academy, ICMPP, Iasi
- National Institute for Lasers, Plasma and Radiation Physics, INCDFLPR, Bucharest
- Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Institute of Excellence of the Romanian Academy, ICF, Bucharest
- National Institute for R&D of Isotopic and Molecular Technologies, INCD-TIM, Cluj-Napoca
- Centre for Fundamental and Advanced Technical Research, Timisoara Branch of the Romanian Academy, CCTFA
- National Center for Engineering of Systems with Complex Fluids, University Politehnica Timisoara, UPT.



PATENT – Design for Micro & Nano Manufacture (Packaging, Test and Reliability Engineering in Micro & Nanosystems Technologies)

AMICOM – Advanced MEMS for RF and Millimeter Wave communications

NANOFUN-POLY – Nanostructured and Functional Polymer-Based Materials and Nanocomposites

4M – Multi-Material Micro Manufacture: Technologies and Applications

NANO2LIFE – A network for bringing NANotechnologies TO LIFE

POLYSACCAHRIDES – European Polysaccharide Network

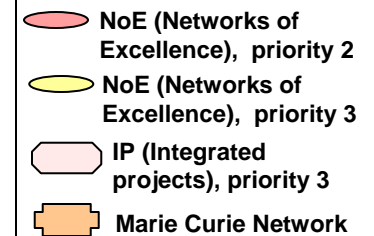
INSIDE-PORES – In Situ Study and Development of Processes Involving Nanoporous Solids

SOFTCOMP – Soft Matter Composites – An Approach to Nanoscale Functional Materials

PHOREMOST – Nanophotonics to realize molecular technologies

ASSEMIC – Advanced Handling and Assembly in Microtechnology

BIOMAHE – Biodegradable Polymeric Materials for Health and Environment

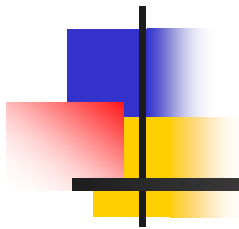


NANOMATFAB Seminar “New chances for participating to European Programmes in FP6 priorities 2 and 3, in accordance with the profile of MATNANTECH national programme”, December 20, 2004

- Prof. Dr. Ion Mihailescu, National Institute for Laser, Plasma and Radiation Physics: “Participation in European contract of *Laser-Surface-Plasma Interactions* laboratory” - PHOREMOST network (“Nanophotonics to realize molecular scale technologies”), priority 2 (IST).
- Dr. Valeria Harabagiu , "Petru Poni" Institute of Macromolecular Chemistry, Iasi: *POLYSACCAHRIDES NoE (“European Polysaccharide Network”)*, priority 3 (NMP).
- Dr. Carmen Moldovan, National Institute for R&D in Microtechnologies: *4M NoE (“Multi-Material Micro Manufacture: Technologies and Applications”)*, priority 3 (NMP).
- Dr. Rodica Turcu, National Institute for R&D of Isotopic and Molecular Technologies, Cluj-Napoca: *NANOFUN-POLY NoE (“Nanostructured and Functional Polymer-Based Materials and Nanocomposites”)*, priority 3 (NMP).
- Dr. Cristian Ruset, National Institute for Laser, Plasma and Radiation Physics: *ForBeST project (“Increased service lifetime of forging tools by combined surface treatments”)*
- Dr. Alexandru Muller, National Institute for R&D in Microtechnologies: *AMICOM NoE (“Advanced MEMS for RF and Millimeter Wave Communications”)*, priority 2 (IST).
- Dr. Nicolae Ionescu, Institute of Physical Chemistry “I.G.Murgulescu” of the Romanian Academy: *INSIDE-PORES (“In Situ Study and Development of Processes Involving Nanoporous Solids”)*, priority 3 (NMP)
- Acad. Dan Dascalu, National Institute for R&D in Microtechnologies: *PATENT (“Design for Micro & Nano Manufacture -Packaging, Test and Reliability Engineering in Micro & Nanosystems Technologies”)*, priority 2 (IST)

IST area (selection):

AMICOM “Advanced MEMS for RF and Millimeter Wave Communications” *Romanian participant.* National Institute for R&D in Microtechnologies

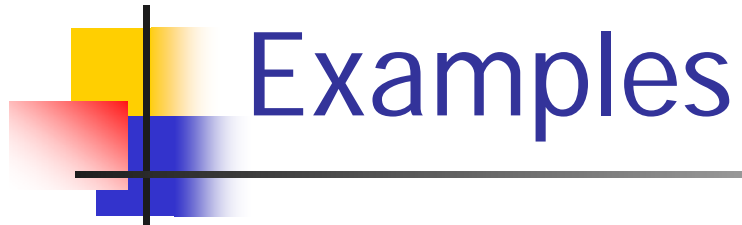


PATENT “Design for Micro & Nano Manufacture - Packaging, Test and Reliability Engineering in Micro & Nanosystems Technologies” *Romanian participant.* National Institute for R&D in Microtechnologies

PHOREMOST network “Nanophotonics to realize molecular scale technologies” *Romanian participant.* National Institute for Laser, Plasma and Radiation Physics

NMP area:

- **4M** “Multi-Material Micro Manufacture: Technologies and Applications”, *Romanian participant:* National Institute for R&D in Microtechnologies
- **NANOFUN-POLY** “Nanostructured and Multi-Functional Polymer-Based Materials and Nanocomposites”: *Romanian participants:* National Institute for R&D in Microtechnologies; National Institute for R&D of Isotopic and Molecular Technologies, Cluj-Napoca
- **POLYSACCHARIDES** “European Polysaccharide Network”, *Romanian participant:* "Petru Poni" Institute of Macromolecular Chemistry, Iasi
- **MAGMANet** “Molecular Approach to Nanomagnets and Multifunctional Materials”, *Romanian participant:* “Alexandru Ioan Cuza” University, Faculty of Physics; University of Bucharest
- **INTUITION** “Network of Excellence on Virtual Reality and Virtual Environment Applications for Future Workspaces, ” *Romanian participant:* University “Ovidius” Constanta
- **VRL KCIP** “Virtual Research Lab for a Knowledge Community in Production”, *Romanian participant:* University “Politehnica” Timisoara



Examples

Description of a few networks

D. Dascalu "NoE and ERA",
CNCSIS Conf., 12-14 May 2005

AMICOM

Advanced MEMS for RF and Millimeter Wave Communications

Coordinator: Prof. Robert Plana - LAAS-CNRS Toulouse

NoE FP 6 - priority 2, IST

The "AMICOM" Network of excellence will be structured into the following three groups of activities:

1. Integrating RF-MEMS activities
2. Joint RF-MEMS Research activities
3. Activities to spread excellence in RF-MEMS

The network will aim to anticipate the research that will be required for the development of future communication systems. It is already apparent that new functionalities will be created through the use of Microsystems for RF and millimeter and wave communications. RF Microsystems will incorporate RF-MEMS components into RF and monolithic microwave integrated circuits (MMIC). This will involve the research in diverse fields, such semiconductor technology, materials science, electromagnetic, mechanical, thermal and electrical modeling, testing and characterization, packaging, reliability and failure analysis.

AMICOM Participants:

CNRS (Fr) (LAAS-IEMN-IRCOM)
CHALMERS (SE)
CRANFIELD (UK)
EPFL (CH)
FORTH (EL)
IMEC (B)
IMPERIAL COLLEGE (UK)
IMT-Bucharest (RO)
ITME (PL)
MILLILAB&VTT (FI)
PERUGIA (IT)
TECHNION (IL)
TEI CRETE (EL)
TUD (D)
TUM (D)
ULM (D)
UPPSALA (SE)
Lab Athens (EL)
ITC-IRST (IT)
ENSM (FR)
METU (TR)
FRAUNHOFER ISIT (D)



4M

Multi-Material Micro Manufacture: Technologies and Applications

Coordinator: Dr. Stefan Dimov - Cardiff University

NoE FP6 – priority 3, NMP

The main aim of 4M is to develop Micro- and Nano-Technology (MNT) for the batch-manufacture of micro- components and devices in a variety of materials into user-friendly production equipment, processes and manufacturing platforms for incorporation into the factory of the future. To achieve this, 4M will integrate the currently fragmented European R&D capacity in non-silicon microtechnologies into a Virtual Centre of Excellence for MNT process and product development. The establishment of such world class expert resource and infrastructure at European level will be crucial to the future of

European companies engaged in satisfying the growing demand for portable, wireless communication products and many lifestyle, health and transport related systems incorporating MNT. The foundations for a new European industrial sector and the achievement of sustainable, commercial and societal benefits for its citizens are the overall goals of 4M.

The establishment of the expertise resource will have an impact on interdisciplinary education and training, on work practices in society and on quality of life. 4M will develop strategic links to research organisations and manufacturing companies involved in complementary and supporting activities and connect to existing and new national programs and will thus have a major impact on the development of the ERA in MNT. Contact will be maintained with other related centres of excellence outside of the network to ensure that knowledge and excellence are spread throughout the EU. The 4M network will have a policy of training researchers from outside the network, including the use of distance computer-based learning, in order to counteract the shortage of skilled human resource in the MNT area and to generally spread knowledge and excellence beyond the network partners.

Participants:

Belgium: KU Leuven

France: CEA

Germany: IMTEK, IZM, FZK, IPT, IBMT, IMM, Erlangen

Netherlands: TNO

Spain TEKNIKER;

Sweden: IVF and KTH

UK: Cardiff, Cranfield, RAL

Bulgaria: BAS

Denmark: DTU

France: LPMO

Germany: IZFM, HSG-IMAT and BLZ

Hungary: BUTE

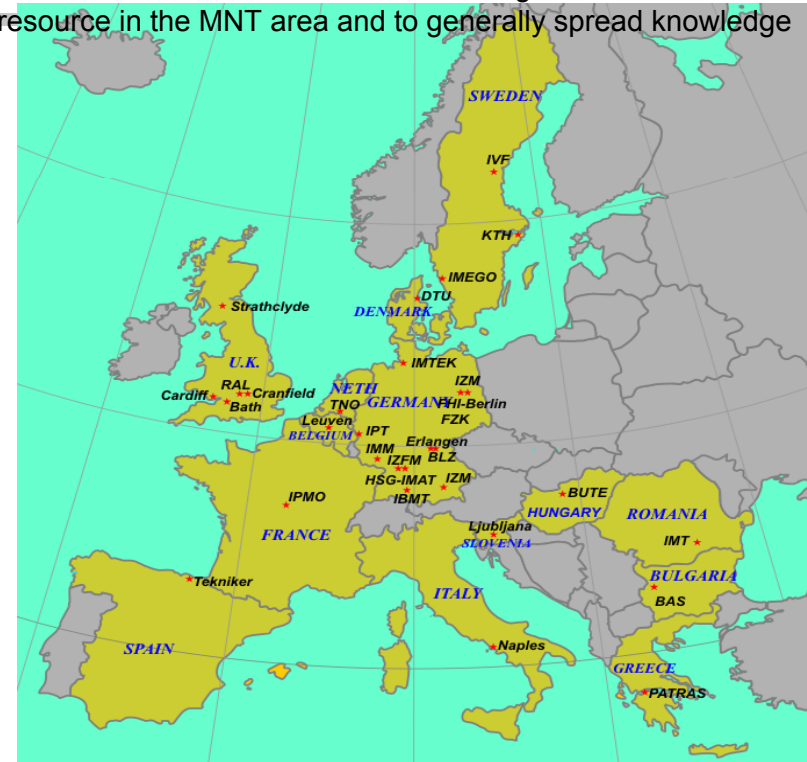
Italy: Naples

Romania: IMT

Slovenia: UL

Sweden: IMEGO

UK: Bath and SCU



NANO2LIFE

A network for bringing NANotechnologies TO LIFE

Coordinator: Dr. Patrick Boisseau, CEA France (patrick.boisseau@cea.fr)

NoEo, FP 6 priority 3 - NMP

Nano2Life in brief

N2L provides a frame to improve European competitiveness in nanobiotech by integrating excellent organisations, offering access to the largest and most advanced multidisciplinary expertise, facilities and know-how.

Integration is achieved by coordinating research, training and communication in academia and industry.

The envisioned permanent **European Institute of Nanobiotech** will guarantee long term integration.

Partners in Nano2 life

- MIC Copenhagen
- Mesa+ Twente
- NMRC Cork
- INSAT Newcastle
- NanoBio Grenoble, France
- PCB Barcelona, Spain
- Lund University
- Bio-Analytik Muenster
- NanoBioNet Saarbruecken
- EPFL Lausanne
- FSRM Neuchatel
- JRC Ispra
- Demokritos Athens Greece
- FORTH Heraklion
- Tel Aviv University

Partners in Nano2 life

Institute of Macromolecular Chemistry , Prague, Czeck Rep.
Faculty of Electrical Engineering, University of Ljubljana, Slovenia
National Institute for Microtechnologies (IMT), Bucharest, Romania
"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
National Centre on NANotechnology, Sofia, Bulgaria
Institute for Materials Science and Technology (BAYATI)
Institute of Chemistry Budapest, Hungary



NANOFUN-POLY

Nanostructured and Multi-Functional Polymer-Based Materials and Nanocomposites

Coordinator: Prof. Jose M. Kenny, Italian Consortium for Science and Technology of Materials (INSTM)

NoE FP 6 - priority 3, NMP

NANOFUN-POLY joins forces of 25 partners from European countries, and combines knowledge and expertise from chemistry, physics, and engineering, covering experimental and applied aspects of materials science (www.NANOFUN.NET).

The research areas of excellence of NANOFUN-POLY network are:

Area 1. Polymer Chemistry: new monomers; new precursors (copolymers, dendrimers, hyperbranched polymers, microgels, nanoclusters); polymerisation routes - chain polymerisation, polycondensation, free radical and radical polymerisation, sol-gel, etc.; and formulation.

Area 2. Polymer Processing: intelligent and integrated processing; environmentally friendly processing techniques; processing nanocomposites; coatings; patterning of polymer surfaces.

Area 3. Nanostructure-Property Relationships: new techniques of nanoscale characterization; rheology at different scales; molecular modelling and related simulation techniques.

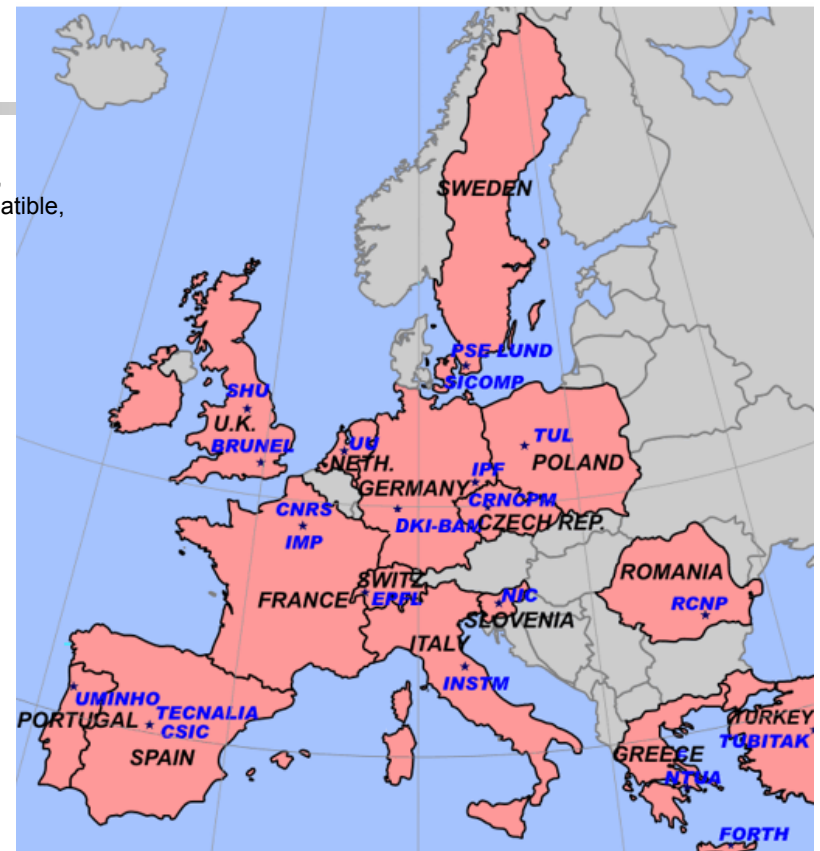
Area 4. Applications: mechanical systems; functional coatings; membranes; optical and electrical devices; bioactivity

The specific applications of the POLYMERIC MATERIALS in the MICRO-NANOTECHNOLOGY field are:

- Sensors and biosensors;
- Nanomaterials/ nanostructures with various application in medicine and environment;
- Optoelectronics based on polymers and composite materials;
- Field emission devices with carbon nanoparticles embeded in polymeric films
- Microwave devices;
- Photolithographic polymers;
- Polymers with functional properties: conductive, semiconductors dielectrics, optical active, photosensitive, photocromics, sensitive, magnetics, field emission, biodegradable, biocompatible, hydrophylic, organometalics, etc.;
- Polymeric films as support for nanoparticles;
- Protective polymers.

Partners in Nano2 life

- MIC Copenhagen
- Mesa+ Twente
- NMRC Cork
- INSAT Newcastle
- NanoBio Grenoble, France
- PCB Barcelona, Spain
- Lund University
- Bio-Analytik Muenster
- NanoBioNet Saarbruecken
- EPFL Lausanne
- FSRM Neuchatel
- JRC Ispra
- Demokritos Athens Greece
- FORTH Heraklion
- Tel Aviv University



PATENT

Design for Micro & Nano Manufacture (Packaging, Test and Reliability Engineering in Micro & Nanosystem Technologies)

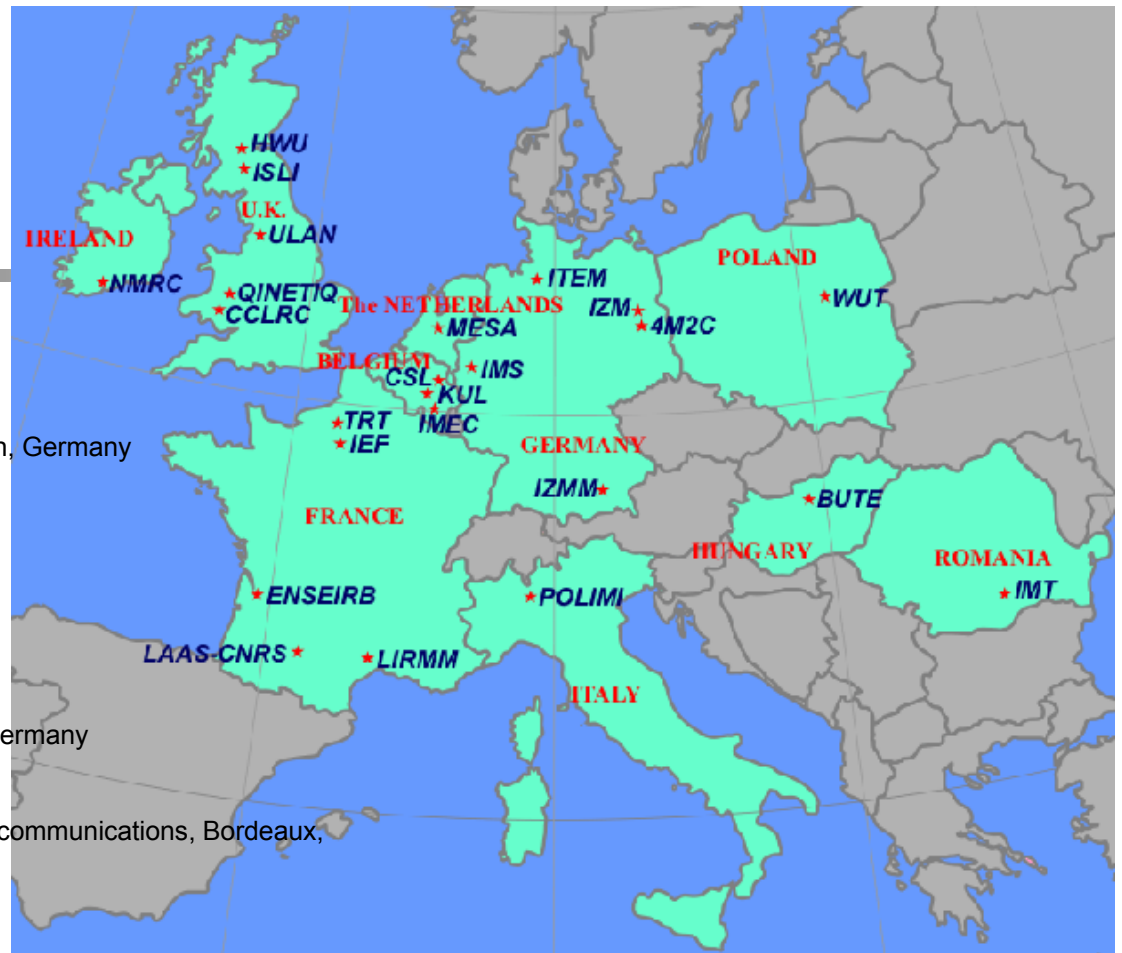
Coordinator – University of Lancaster, UK; Dr. A Richardson (A.Richardson@Lancaster.ac.uk)

NoE FP 6 - priority 2, IST

PATENT is a reactive initiative that will attempt to realise the vision of providing innovators whether they be members of small companies, universities or multinationals a "predictable" route from M&NT based product concept to product. This will be achieved by realising in the medium to long-term a new concurrent engineering or Design for Micromanufacture Methodology (DfMM) methodology for M&NT-based products that provides designers with the means to design for performance, testability, robustness and dependability competitively, whatever the operating environment. To achieve this vision, major technical challenges need to be solved that are both technically difficult and require workable cross-disciplinary teams.

Partners:

Coordinator - University of Lancaster, UK
Universitaet Bremen, Germany
IMEC, Leuven, Belgium
Universite Paris-sud, Orsay, France
LIRMM, Montpellier II, France
University College Cork - National University of Ireland, Cork, Ireland
QinetiQ Sensors and Electronics, Malvern, UK
National Institute for Microtechnologies Bucharest, Romania
Institute of System Level Integration, Scotland
4M2C, Berlin, Germany
Fraunhofer Institute for Reliability and Microintegration IZM, Berlin, Germany
Fraunhofer-Gesellschaft e.v.- Dresden, Germany
LAAS-CNRS - Paul Sabatier University, Toulouse, France
Katholieke Universiteit Leuven, Belgium
Budapest University of Technology & Economics, Hungary
THALES, Paris, France
Heriot Watt University, Edinburgh, UK
Council for the Central Laboratory of the Research Councils, UK
Politecnico di Milano, Italy
Fraunhofer Institute for Reliability and Microintegration Munich, Germany
Warsaw University of Technology, Poland
Centre Spatial de Liege, Belgium
Ecole Nationale Supérieure d'électronique, Informatique et Radiocommunications, Bordeaux, France
MESA Research Institute, Twente, Netherlands



ASSEMIC

Advanced Handling and Assembly in Microtechnology

Coordinator: Institute of Sensor and Actuator Systems - ISAS, Prof. Dr. Werner Brenner

A Marie Curie Research Training Network

The Main Objectives of the Network are:

High resolution positioning systems, micromotors and microrobots.

Advanced tools and control for microhandling (visual/ force feedback, haptic interfaces, etc.)

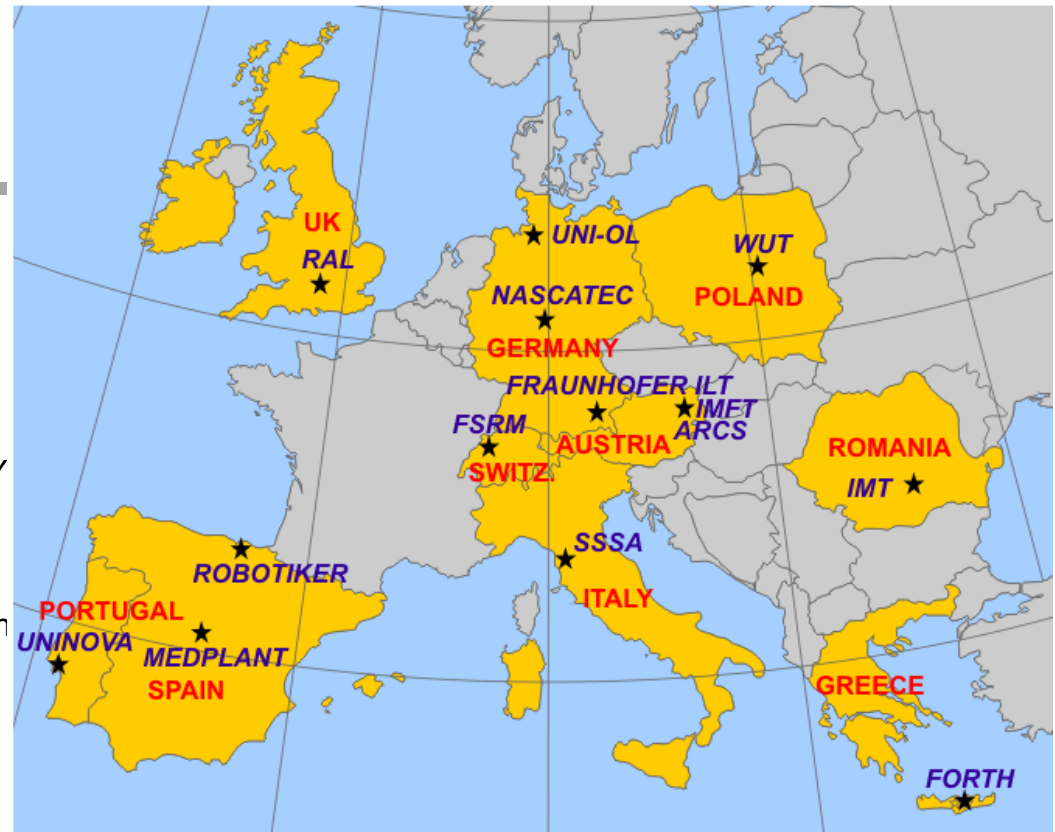
Microassembly tools and strategies (self-assembly, bonding, soldering...)

Quality management for industrial manufacturability

Know-how management (e-learning, technology transfer and dissemination, etc.)

Participants:

- Institute of Sensor and Actuator Systems - ISAS
- Swiss Foundation for Research in Microtechnology – FSRM
- ARC Seibersdorf research GmbH - ARCS
- National Institute for Research and Development in Microtechnologies, Bucharest, Romania - IMT
- Warsaw University of Technology - WUT
- Instituto de Desenvolvimento de Novas Tecnologias – UNINOVA
- Carl von Ossietzky University Oldenburg - Uni-OL
- FUNDACION ROBOTIKER - ROBOTIKER
- FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - FORTH
- Medplant Genetics. S.L. - Medplant
- CLRC Rutherford Appleton Laboratory – RAL
- Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.v. - Fraunhofer ILT
- Scuola Superiore Sant'Anna – SSSA
- NANOSCALE TECHNOLOGIES GMBH - Nascatec GmbH





Active role

- **PATENT:** IMT is an associate member of the Board, has a Special role for Eastern Countries (NMS and ACC) in dissemination and Networking (WP6 Dissemination and Networking)
- **4M:** IMT is coordinator of WP12, task 12.5 for "RAS Centres (Research Advisory Service Centres) in NMS
- **AMICOM:** Represented in the Project Board
 - **TAKING THE INITIATIVE:** *The above three projects are members of a project coordinated by IMT, namely MINOS-EURONET*



SSA in the benefit of NMS/ACC

- Dissemination of information
 - A better visibility of potential Eastern participants to EU programmes
 - Exchange of information Est-West
- Direct contacts
 - Brokerage
 - Scientific events
 - Policy

MINOS-EURONET



Focus

Mixed or “converged” technologies: Micro-nano-biotechnologies

- - Three *international Forums* on relevant strategic fields for NMS / ACC. The Forums will offer the possibility to conjugate the Eastern and Western Countries potential in MST related technologies.
- - Three editions of the *“Microsystems as a platform for integrating technologies” Conference*, in Romania, Poland and Lithuania. This conference will select the best results in micro-nanosystems from NMS and ACC (including results of cooperation with scientists from MS).

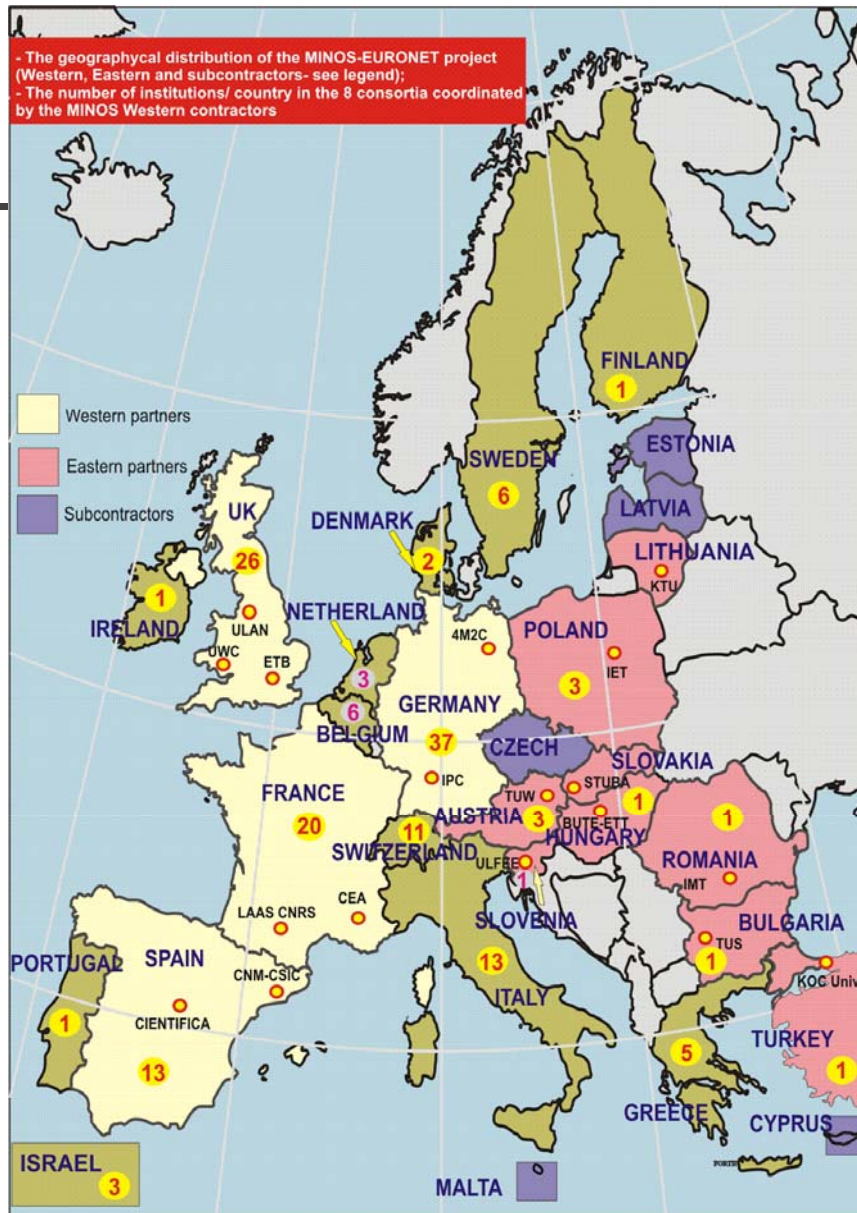
Support for FP7



The characteristic of this project is given by the presence in the project consortium of eight coordinators of big FP6 projects, as follows:

- **GOSPEL** (General Olfaction and Sensing Projects on a European Level), **NoE in priority 2, IST, coordinated by IPC, Institute of Physical and Theoretical Chemistry, University of Tuebingen, Germany;**
- **PATENT-dfmm (Design for Micro & Nano Manufacture)**, **NoE, in priority 2, IST, coordinated by University of Lancaster, UK;**
- **AMICOM** (Advanced MEMS for RF and Millimetre Wave Communications), **NoE in priority 2, IST, coordinated by CNRS-LAAS (Toulouse, France);**
- **GOOD FOOD** (Food Safety and Quality with Microsystems), **IP in priority 2, IST, coordinated by Centro Nacional de Microelectrónica (CNM), Madrid, Spain;**
- **HEALTHY AIMS** (Nano scale materials and sensors and microsystems for medical implants improving health and quality of life), **IP in priority 2, IST, coordinated by European Technology for Business Ltd, Codicote, UK;**
- **4M** (Material Micro Manufacture: Technologies and Applications), **NoE in priority 3, NMP, coordinated by University of Wales Cardiff, Manufacturing Engineering Centre, UK;**
- **Nano2Life** (Bringing NANOTEchnologies TO LIFE), **NoE, priority 3, NMP, coordinated by CEA (French Atomic Energy Commission);**
- **ASSEMIC** (Advanced Methods and Tools for Handling and Assembly in Microtechnology), **Training by Research Network, Marie Curie actions, coordinated by Vienna University of Technology, Institute of Sensor and Actuator Systems TUW-ISAS, Vienna, Austria.**

D. Dascalu "NoE and ERA",
CNCSIS Conf., 12-14 May 2005



MINOS-EURONET cluster of eight FP6 projects contains 159 different organizations (the number of partners is shown circled on the map of each country).

Coordination:

National Institute for R&D in Microtechnologies (IMT-Bucharest)

Project coordinator:

Prof. Dan Dascalu,
Email: dascalu@imt.ro

www.imt.ro

Contact address:

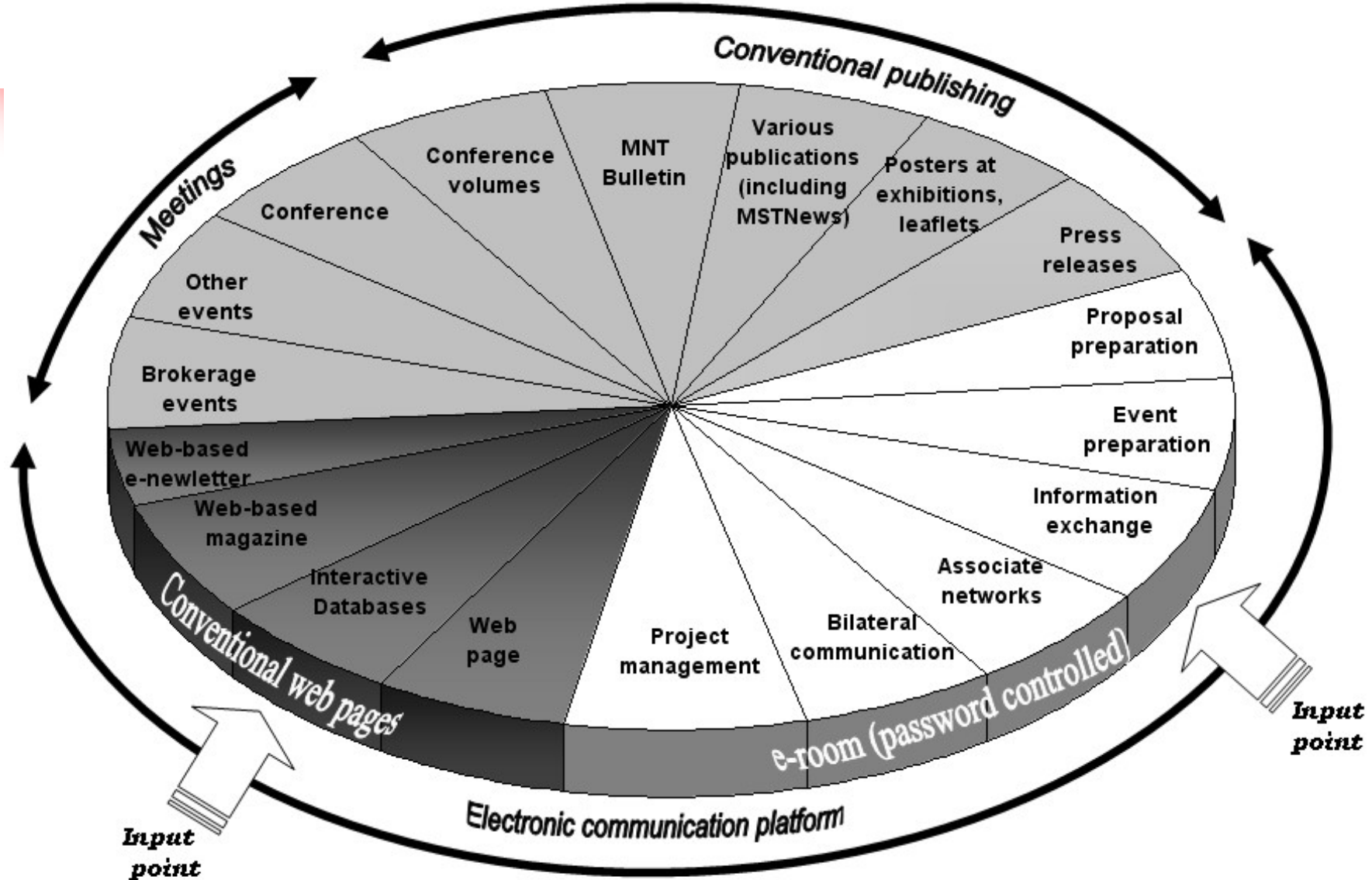
MINOS team:

minos@nano-link.net

d ERA",
May 2005



MINOS-EURONET Communication Platform

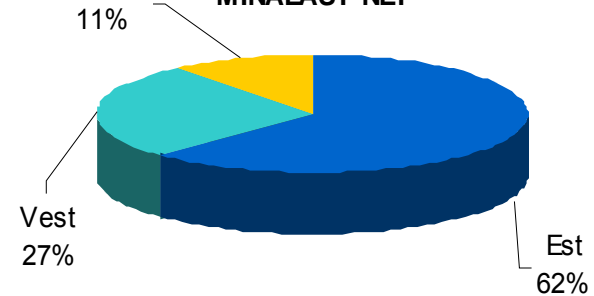


FP6 SSA Projects coordinated by IMT for integration in ERA and Pan-European Networking

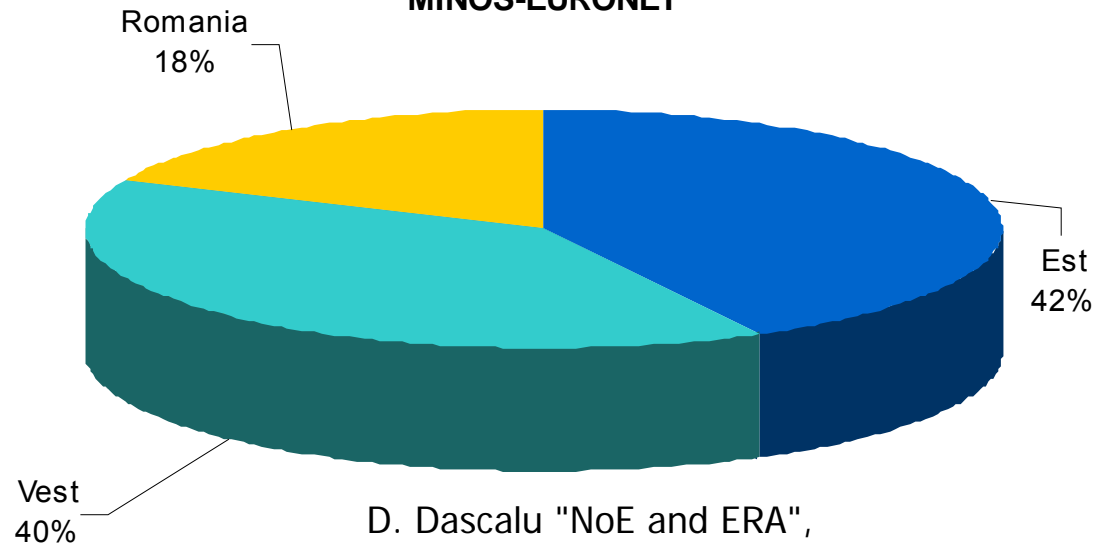
ROMNET-ERA



MINAEAST-NET

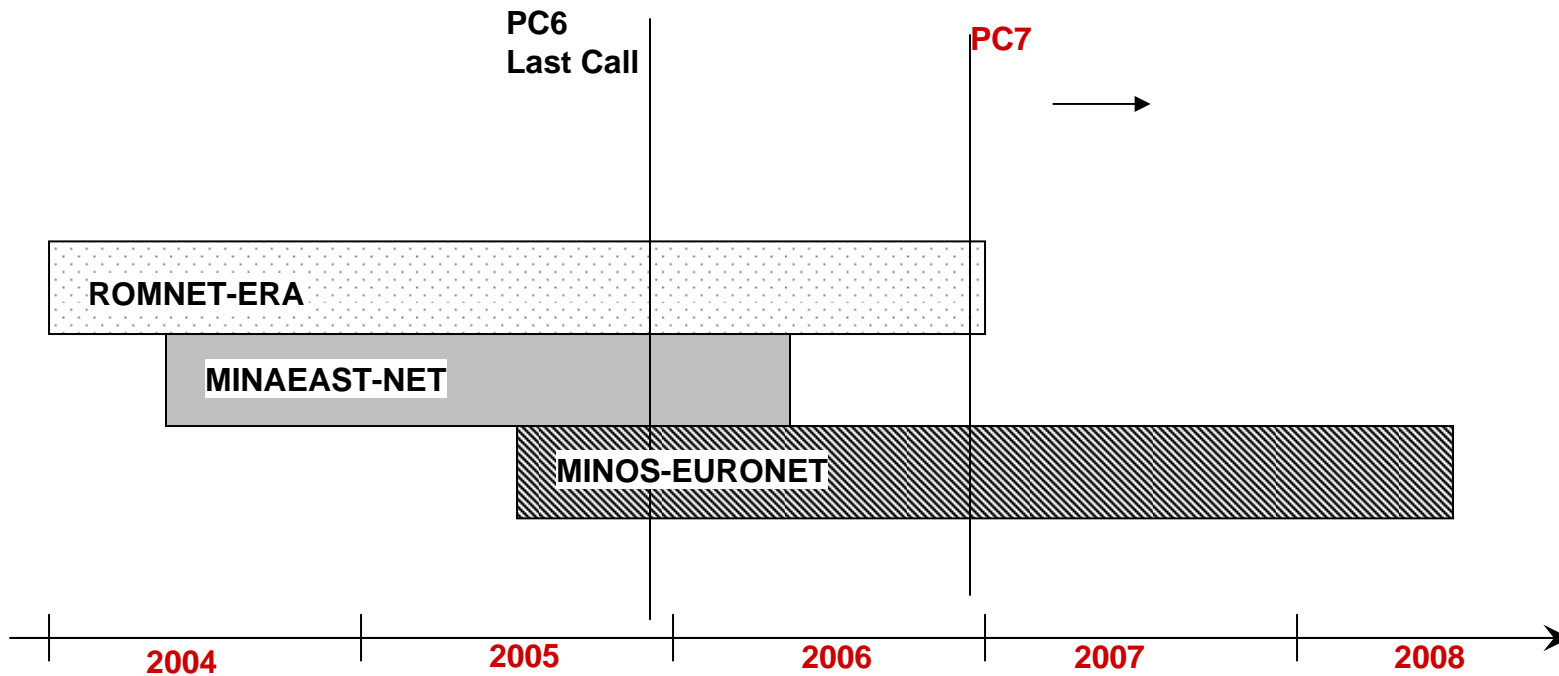


MINOS-EURONET



D. Dascalu "NoE and ERA",
CNCSIS Conf., 12-14 May 2005

FP6 SSA Projects coordinated by IMT for integration in ERA and Pan-European Networking



MINAEAST: Micro and Nanotechnologies going Eastern Europe through Networking

MINOS: Micro and Nanosystems European Network pursuing the integration of NMS and ACC in ERA

D. Dascalu "NoE and ERA",
CNCSIS Conf., 12-14 May 2005



The nanoLINK initiative

- MINAEAST – NET and MINOS-EURONET are working under umbrella of the nanoLINK initiative, using the nanoLINK “platform”



The **nanoLINK** web portal

- A platform for cooperation between **different projects** and the corresponding networks
- Common databases
- Open for new interactions
 - Education and training
 - Technology transfer



Added value of databases

- Created in **ROMNET-ERA** for the inventory of *Romanian centres*
- Also completed with data from other Eastern countries in **MINAEAST-NET**
- Open for interaction with Western partners through **MINOS-EURONET**

home - Microsoft Internet Explorer

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Address <http://www.nano-link.net/> Go





nanoLINK
Life quality through Innovation in a Network of Knowledge

- [Description of Nano-Link](#)
- [E-newsletter](#)
- [Databases](#)
- [Highlights](#)
- [European Projects](#)
- [Events, FP6 calls](#)
- [Various Information](#)
- [Core members](#)

NEWS! [East/West Partnering Workshop within the MINAEAST.NET Initiative](#) - TU Berlin/FhG-IZM, Berlin, Germany, 22 Apr 2005 still open for presenters!

NEWS! [SEMINANANO2005, First International Workshop on Semiconductor Nanocrystals](#), September 10-12, 2005 Budapest, Hungary
Deadline for abstract submission: March 21, 2005

■ **MINAEAST EU project can offer facilities for NMS/ACC researchers and academic or industrial organisations.** Are you interested? *Please download this questionnaire on your computer and send the completed questionnaire to net@imt.ro.*
[Questionnaire.](#)
[Online questionnaire.](#)

■ [Flash News 1](#) (February 21, 2005)

■ [Info and awareness event on priority 3 of FP6, in Bucharest, Romania, 17 th of January, 2005](#)

Highlights:

- **Ezio Andreta**, Director, Directorate Industrial Technologies, DG Research: "*Toward in FP 7*": [Presentation](#) (272kB)
- **Renzo Tomellini**, Head of Unit 'Nanosciences and Nanotechnologies': "*Priority 3-NMP in FP6*": [Presentation](#) (3.3MB)

■ NMP Call - Database for Partner Matching: [FP6-2004-NMP-TI-4](#) and [FP6-2004-NMP-NI-4](#) (December 2004)

[About Nano-LINK](#)

This site was launched on the 10th December 2003, during the EuroNanoForum December, Trieste, Italy

Done Internet



Main futures

- Oriented mainly towards applications related to *life quality*
 - Converging technologies, e.g. micro-, nano- biotechnologies
- Exploiting the human potential of *Eastern Europe*
- Paying special attention to *education and training* (at the global scale)



nano*LINK* supporting
preparation of new proposals

- **Working groups on the above topics**
- Exchanging information with foreign specialists
- Traveling to meetings for project preparation

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Search the Web Search Address http://erom.nano-link.net/romnet/users/your_projects.php Go Links

e-room RomnetERA

Browse Projects | Your Projects | User management

Welcome **Dan Dascalu (dascalu)** Help || LogOut

 **Projects and Activity Areas**

1 Activity Area: nano

	Project name	Project Description	Access Type	Enrolled	Created	Logins	Actions
1	Expresii de interes		Restricted to Partners	1	2005-03-24 15:53:11.962284	M: 0	Properties Enrolment Email

1 Activity Area: nano

	Project name	Project Description	Access Type	Enrolled	Created	Logins	Actions
1	Propunere EoI 1	nanobiotehnologii	Restricted to Partners	1	2005-03-24 15:58:58.73708	M: 0	Properties Enrolment Email

1 Activity Area: nano

	Project name	Project Description	Access Type	Enrolled	Created	Logins	Actions
1	Proiect EoI 2	tehnologii convergente	Restricted to Partners	1	2005-03-24 15:59:32.298355	M: 0	Properties Enrolment Email

D. Dascalu "NoE and ERA",
CNCSIS Conf., 12-14 May 2005

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Thursday 24th of March 2005 04:12:38 PM

Expresii de interes - Announcements

[New announcement](#) | [File Manager](#)

No Announcements Found

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PROJECT

Project HOME

- > Management
- > Supervisor
- > Restricted to Partners
- > Visitor

USERS ONLINE

>dascalu

e-Room Version 3 | Developed by iMediasoft, 2004

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PROJECT

Project HOME

- > Management
- > Supervisor
- > Restricted to Partners
- > Visitor

USERS ONLINE

>dascalu

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EoI 2 EoI 1

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D. Dascalu "NoE and ERA",
CNCSIS Conf., 12-14 May 2005



n@noLINK *supporting
preparation*

- Working groups on the above topics?
- **Exchanging information with
foreign specialists?**
- Traveling to meetings for project preparation?

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Micro and Nanotechnologies going to EASTern Europe through NETworking (MINAEAST-NET)

Contract no.: 510470

- Home
- About the project
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- MINAEAST offer
- Contact

New You can perform a [free search](#) (without password) in identifying centres of research by country or by keywords. The search on keywords is done not only on the titles (shown by the list displayed), but also by looking at the description of centres. The later description is available in full only after registration with your own centre.

New [East/West Partnering Workshop within the MINAEAST.NET Initiative](#) - TU Berlin/FhG-IZM, Berlin, Germany, 22 Apr 2005 *still open for presenters!*

New [SEMINANO2005, First International Workshop on Semiconductor Nanocrystals](#), September 10-12, 2005 Budapest, Hungary
Deadline for abstract submission: March 21, 2005.

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<http://conferences.mfa.kfki.hu/seminano2005/index.php?s=content&p=index> Internet



Micro and Nanotechnologies going to EASTern Europe through NETWORKING (MINAEAST-NET)

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› **Project MINAEAST-net** is collecting data about Research Centers from European Countries.

Research Centers - A centre is a research entity (independent or not) with a specific profile and a specific interest related to the field. If not independent, it should be recognised as a separate entity (autonomous or not) within the parent organisation; it may be, for example, a research group in a faculty of a university, or a laboratory within a research institute.

You have access here to an inventory which allows you to search related to your interest in thematic research fields (as defined by priorities of FP 6), by Country and by keywords.

- › [Free search by Country](#)
- › [Free search by Keyword](#)
- › [Free search by Domains](#)
- › [Free search by Priority](#)
- › Centers registered in our database listed by Country

If you want to see more detail about results of the search found here, please register your Center in our Research Center database!

› [Centre questionnaire:](#)

Search by Priority


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- Priority 1 - Life sciences, genomics and biotechnology for health**
- Priority 2 - Information society technologies**
- Priority 3 - Nanotechnologies and nano-sciences, knowledge-based multifunctional materials and new production processes and devices**
- Priority 4 - Aeronautics and space**
- Priority 5 - Food quality and safety**
- Priority 6 - Sustainable development, global change and ecosystems**
- Priority 7 - Citizens and governance in a knowledge-based society**

Order by country



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Bulgaria	
Cyprus	
Czech Republic	
Denmark	
Estonia	
Hungary	
Latvia	
Lithuania	

Done Internet

Example search by Country

[Estonia](#)

No	Entity Name (English)	Country	Parent organization	Contact person for the centre
1	Archimedes Foundation, Innovation Centre	Estonia		Dr Rein Kaarli
2	AS Clifton	Estonia		Dr Roland Pärn
3	BIA	Estonia		Dr Saalik Anneli
4	BIA	Estonia		choose Tasa Andrus
5	Maico Metrics, Tartu	Estonia		Mr Indrek Reimand
6	MikroMasch Eesti Ltd, Tallinn	Estonia		Mr Pavel Kudinsky
7	Talinn Technical University	Estonia		choose Malle Krunk
8	Tartu Science Park Foundation	Estonia		choose Paul Pällin
9	University of Tartu, Institute of Physics, Tartu	Estonia		choose Ilmar Kink

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D. Dascalu "NoE and ERA",
CNCSIS Conf., 12-14 May 2005

Search by Keyword - nano

Minaeast-Net - Microsoft Internet Explorer

Address: http://www.minaeast.net/free_search_kw.htm

Google Search Web



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Free search in Center Database by Keywords

Search input: nano

AND OR

Search

No	Entity Name (English)	Country	Parent organization	Contact person for the centre
1		Lithuania		choose Ludvikas Pranevicius
2		Turkey		Dr Mustafa Guden
3		Slovakia		Mrs Viera Khunová
4		Slovakia		Dr Ladislav Pe ek
5	"Institute for Non-ferrous and Rare Metals, Research Group for Nanoceramic	Romania		Dr Roxana Mioara Piticescu
6	ADVANCED ENGINEERING GROUP (AEG)	Romania	UNIVERSITY OF CRAIOVA	Prof MIHAIL MANGRA
7	Atomistics Simulation Laboratory	Turkey	Physics Department, Arts and Sciences Faculty, Yildiz Technical University	Prof Gulay Dereli
8	Atomistics Simulations Laboratory, Yildiz Technical University, Department of Physics	Turkey	Yildiz Technical University, Istanbul	Prof Gulay Dereli
9	BILKENT University	Turkey		Dr Atilla AYDINLI
10	Biological Research Centre	Hungary		choose Pál Ormos
11	Biomolecular Layers Laboratory	Bulgaria	Institute of Solid State Physics, ISSPh-BAS	Prof Alexander Petrov
12	Center for Advanced Technologies	Romania	University Politehnica Bucharest	Mr Mindruta Silviu
13	Center for research and application of coatings increasing lifetime and reliability	Czech Republic	Czech Technical University, Prague, Faculty of Mechanical	Dr Rudolf Novák
14	Center of Nanotechnology	Romania	National Institute for Research and Development in Microtechnologies (IMT- Bucharest)	Dr Irina Kleps
15	Central Lab of Solar Energy and New Energy Sources, CLSENE-BAS	Bulgaria	National Centre of Nanotechnology-NCNT	Prof Petko Vitanov
16	Central Laboratory of Electrochemical Power Sources, CLEPS-BAS	Bulgaria	National Centre on Nanotechnology (NCNT)	Mr Z. Stoynov


Done Internet

Search by Keyword - opto

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Address http://www.minaeast.net/free_search_kw.htm

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Free search in Center Database by Keywords


opto

AND OR

Search

No	Entity Name (English)	Country	Parent organization	Contact person for the centre
1	Central Lab of Solar Energy and New Energy Sources, CLSENES-BAS	Bulgaria	National Centre of Nanotechnology-NCNT	Prof Petko Vitanov
2	Central Laboratory of Photo-Processes, CLPHP-BAS	Bulgaria	BULGARIAN ACADEMY OF SCIENCES	Dr Atanas Buroff
3	ECOMAssociation for protection the human being and the environment for a sustainable development in the world	Romania		Dr Maria Nastac
4	Elementary Processes in Plasma and Applications	Denmark	National Institute for Lasers, Plasma and Radiation Physics	Dr Cristian P. Lungu
5	Faculty of Science	Czech Republic	Charles University Prague	choose Mička Zděnek
6	Institute of Physical Electronics	Lithuania	Kaunas University of Technology	choose Dalius Jucius
7	Institute of Scientific Instruments ASCR, Brno	Czech Republic	ASCR (Academy of Sciences of CR)	Dr Jaroslav Sobota
8	Lab. for Micro and Nano Photonics	Romania	National Institute for R&D in Microtechnologies-MT-Bucharest	Dr Dana Cristea
9	Lasers Department	Romania	National Institute for Lasers, Plasma and Radiation Physics	Dr Constantin Fenic
10	Microphysical Characterization Laboratory	Romania	National R&D Institute for Microtechnologies-IMT Bucharest	Mr Adrian Dinescu
11	Microwave and Optoelectronics Laboratory	Romania	Technical University of Iasi	Prof Irinel CASIAN-BOTEZ
12	Nanostructured Materials Group	Romania	National Institute for Non-ferrous and Rare Metals	Dr Robert Piticescu
13	Research Centre in MOLECULAR BIOPHYSICS	Romania	UNIVERSITY OF BUCHAREST	Dr LAURA TUGULEA
14	Safibra	Czech Republic		Dr Ladislav Sasek

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Search by domains - diagram

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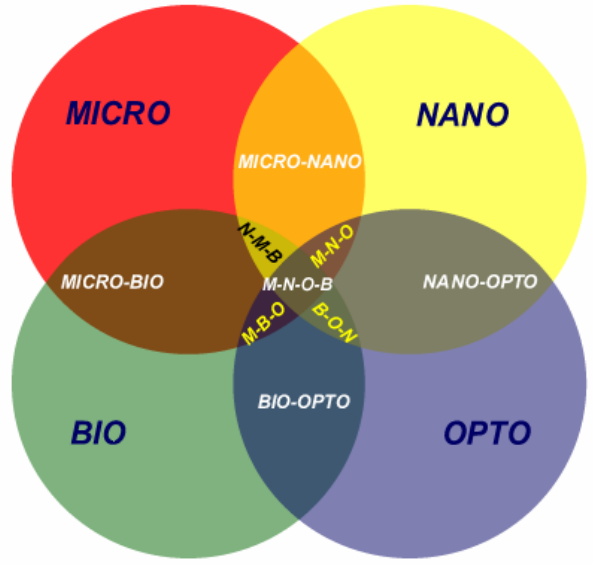
Micro and Nanotechnologies going to EASTern Europe through NETWORKing (MINAEAST-NET)

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Click on the each region of the picture if you want to search by domain.
Results of the search when you click on the intersections of domains are made with "and" operator.

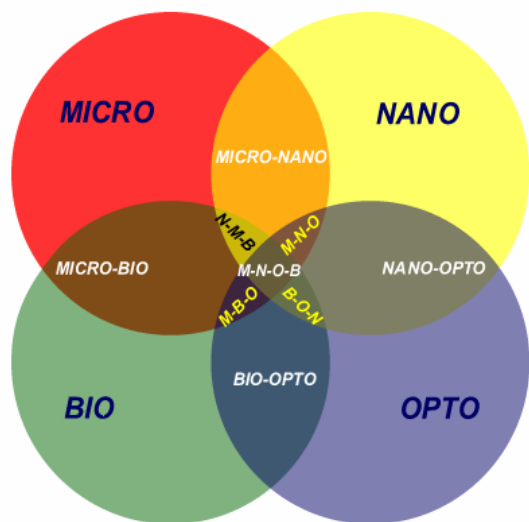
- M-N-O-B: Micro-Nano-Opto-Bio
- N-M-B: Nano-Micro-Bio
- M-N-O: Micro-Nano-Opto
- B-O-N: Bio-Opto-Nano
- M-B-O: Micro-Bio-Opto



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Search by Domain – M-N-O-B: Micro-Nano-Opto-Bio



Microsoft Internet Explorer

www.minaeast.net/freesearch/search_1.php?keywords=micro+bio+opto+nano&radiobutton=AND

through NETWORKING (MINAEAST-NET)
Contract no.: 510470

No	Entity Name (English)	Country	Parent organization	Contact person for the centre
1	Elementary Processes in Plasma and Applications	Denmark	National Institute for Lasers, Plasma and Radiation Physics	Dr Cristian P. Lungu
2	Lab. for Micro and Nano Photonics	Romania	National Institute for R&D in Microtechnologies-MT-Bucharest	Dr Dana Cristea
3	Nanostructured Materials Group	Romania	National Institute for Non-ferrous and Rare Metals	Dr Robert Piticescu
4	Research Centre in MOLECULAR BIOPHYSICS	Romania	UNIVERSITY OF BUCHAREST	Dr LAURA TUGULEA
5	Semiconductor Physics Institute, Vilnius	Lithuania		Dr Steponas Asmontas
6	Simulation, Modelling and Computer Aided Design Lab	Romania	IMT Bucharest	Dr Raluca Muller
7	Tissue Engineering, Biomaterials and Bionanotechnologies Lab.	Turkey	Ankara University	Prof Y. Murat Elcin
8	Vilnius University Institute of Theoretical Physics & Astronomy	Lithuania		Dr Alvydas Tamulis

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I. Identifying centres (entities), [see explanation](#)

Entity Name (local/national language)	<input type="text"/>
Entity Name (English)*	<input type="text"/>
Country*	<p style="text-align: center;">Europe</p> <p style="text-align: center;"><input type="text"/></p> <p style="text-align: center;">Other Country (specify)</p> <p style="text-align: center;"><input type="text"/></p>
Status of the centre - Independent entity ? *	<input type="radio"/> Yes <input type="radio"/> No
IF NO:	
Parent organization	<input type="text"/>
Position inside parent organisation	<input type="text" value="choose"/> Other (specify) <input type="text"/>
Main activity of this centre *	<input type="text" value="choose"/> Other (specify) <input type="text"/>
Contact person for the centre	<input type="text"/>
Title	<input type="text" value="choose"/>
Position (function)	<input type="text"/>
E-mail	<input type="text"/>
Phone number	<input type="text"/>
Fax	<input type="text"/>

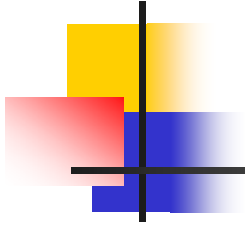
Done Internet

Final result of the search partner matching databases

A list of all entries corresponding to the selected sub domain, also containing for each entry:

- contact data for this entry
- profile of the organization introducing the data
- basics resources in the selected domain
- suggestion for common research (expression of interest)

Organization Fullname Name	Organization Short Name	Web page	Country	Main activity	Department	Contact	Email	Contact other	Profile	EU projects
National Institute for Research and Development in Microtechnologies	IMT-Bucharest	http://www.imt.ro	Romania	Research	Centre of Nanotechnologies	Irina Kleps	irinak@imt.ro	Str. Erou Iancu Nicolae 32B, Bucharest 077190, Fax: 4021.4908238	Theoretical studies, fabrication technologies and characterisation methods of nanomaterials and nanostructures with applications in microsystems	- FP6-2003, NoE: Nanostructured and Functional Polymer-Based Materials, "NANOFUN-POLY" - Selective growth of carbon nanotubes on pyramidal silicon structures, Bilateral Romanian-French "Brincusi" project (2003-2005). - Cooperation of Southwest European countries in field of Nanotechnology- COSENT - Porous silicon matrix for biomedical applications, NMRC- CORK -2003 - European FP5 Network, 2001-2003 PHANTOMS
				Competence/Resources					Proposal/Interest	
Long-term interdisciplinary research into understanding phenomena, mastering processes and developing research tools				Silicon surface functionalisation					- Self-organisation and self-assembling; - Covalent binding of oligonucleotides for microPCR applications.	
Nano-biotechnologies				-Bio-chips for diagnosing biological media and for pollution control; -Porous silicon matrix like bio-active material; -Drug delivery devices; -Microchip for DNA analysis.					- Biomedical applications of nanostructures; -Interfacing biological and non-biological components	
Nano-metre-scale engineering techniques to create materials and components				-Nanostructures preparation: chemical and electrochemical etching; thin film deposition; thermal processes; -Nanoparticles: CVD synthesis, sol-gel processing, functionalisation, stabilisation.					-Development of nanostructured materials; - Surface functionalisation; - Development of carbon nanotubes;	
Development of handling and control devices and instruments										
Applications in areas such as health and medical systems, chemistry, energy, optics, food and the environment				-Porous silicon bio-medical applications (drug delivery systems and tissue engineering); -Pharmaceutical Lab-on-a-chip;					-Pharmaceutical Lab-on-a-chip; -Lab-on-a-chip for DNA analysis;	
Development of fundamental knowledge				-Biological/non-biological interfaces: cells adhesion on porous silicon;					-Interfacial characteristics and phenomena;	
Technologies associated with the production, transformation and processing of knowledge-based multifunctional materials and biomaterials				-Nanostructured silicon as bio-active, biocompatible and bioresorbable material;					-Novel materials, serving multisectoral applications; - Microsystems based on multifunctional materials;	
Engineering support for materials development				-Nanostructures bio-mineralisation; -In-vitro experiments in SBF; -Electrical characterisation						
Development of new processes and flexible, intelligent manufacturing systems										
Systems research and hazard control										
Optimising the life-cycle of industrial systems, products and services										
Human-friendly, safe and efficient construction IP										
New generation of multifunctional materials and technologies for surface transport - IP										
Mastering chemicals and creating new eco-efficient processes and synthesis routes IP; NE										



■ Tools for networking

Entry questionnaire
- Specialist database -

Section A: Studies

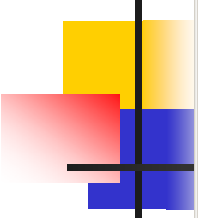
First Name *	<input type="text"/>
Family Name *	<input type="text"/>
Title *	SELECT ▾
Degree: Post Doc, Ph.D., M.Sc, Diploma (Title/Year/Institution/Country)	<input type="text"/>
Background (first university degree) in (select the most appropriate entry)*:	SELECT ▾
Second specialization (if any) centered on (select the closest entry): Note: through a degree, PU course, training by research etc. (minimum one year)	SELECT ▾

Section B: Affiliation

Institution name and Initials *	<input type="text"/>
Country (for your place of work, at the above institution)*	Europe ▾ Other Country (specify) <input type="text"/>
Position	<input type="text"/>
E-mail (main address and alternative)*	Main address * : <input type="text"/> Alternative address (if necessary) <input type="text"/>
Phone, Fax *	<input type="text"/>
Address and/or mailing address (if different from the location of the above institution)	<input type="text"/>
Country of origin (permanent residence), if different from the above	Europe ▾ Other Country (specify) <input type="text"/>
Age	SELECT ▾
Gender	SELECT ▾

Section C: Competence (expertise)*

<i>First Competence</i>	
Domain *	<input type="text"/>
Key Words *	<input type="text"/>





Short description (please indicate the nature of your work, e.g. computer-aided simulation and design, technology, physical characterization etc. - Max 1000 characters)	<input type="text"/>
Functioning as an expert* <i>Note: you have to select at least one entry</i>	<input type="checkbox"/> Evaluator of proposals at the EC <input type="checkbox"/> Expert of the EC (committee program and others) <input type="checkbox"/> Other international expert <input type="checkbox"/> National expert <input type="checkbox"/> Neither of the above
Section D: Participation in the most relevant international projects	
Project 1: Title/Acronym/Program/Time interval	<input type="text"/>
Description (Max 1000 characters)	<input type="text"/>
Project 2: Title/Acronym/Program/Time interval	<input type="text"/>
Description (Max 1000 characters)	<input type="text"/>
Project 3: Title/Acronym/Program/Time interval	<input type="text"/>
Description (Max 1000 characters)	<input type="text"/>
Section E: Interest in collaboration	
Nature of your activity (basic job today), please select* <i>Note: you can select more than one entry</i>	<input type="checkbox"/> Research <input type="checkbox"/> Technological development <input type="checkbox"/> Technological transfer <input type="checkbox"/> Production <input type="checkbox"/> Education <input type="checkbox"/> Knowledge or information dissemination <input type="checkbox"/> Management <input type="checkbox"/> Marketing <input type="checkbox"/> Consultancy <input type="checkbox"/> Other
Interest for continuing/extending your activity at the international scale, select the domain of activity* <i>Note: you can select more than one entry</i>	<input type="checkbox"/> Scientific research and technological development <input type="checkbox"/> Education and training <input type="checkbox"/> Technology transfer and innovation
Detailed description of your interest	<input type="text"/>
Interest for future themes (priorities for cooperative research) in the future Framework program (FP7) of EU <i>Note: you can select more than one entry</i>	<input type="checkbox"/> Health <input type="checkbox"/> Food, Agriculture and Biotechnology <input type="checkbox"/> Information and Communication Technologies <input type="checkbox"/> Nanosciences, Nanotechnologies, Materials and new Production Technologies <input type="checkbox"/> Energy <input type="checkbox"/> Environment (including Climate Change) <input type="checkbox"/> Transport (including Aeronautics) <input type="checkbox"/> Socio-economic Sciences and Humanities <input type="checkbox"/> Security and Space
Key Words	<input type="text"/>
Other relevant information	<input type="text"/>
Section F: user account	
Username suggested by you* <i>Note: you have to entry the same username for all databases</i>	<input type="text"/>

Cautare si editare (cu parola)

ch the Web Search Address <http://www.romnet.net/auth2/login.php> Go Links


 **ROMNET-ERA**
ROMANIAN INVENTORY AND NETWORKING FOR INTEGRATION IN ERA
2004-2006
(Inventarierea si interconectarea centrelor de cercetare din Romania si integrarea acestora in ERA)

Contract No . 510475 financed by European Commission

Search **Edit my profile** **Logout**

Prezentarile de la Seminarul National de Nanostiinta si Nanotehnologie din 18 ianuarie 2005 se gasesc [AICI](#).

ch the Web Search Address <http://www.romnet.net/auth2/search.php?select=ALL> Go Links

 **ROMNET-ERA**
ROMANIAN INVENTORY AND NETWORKING FOR INTEGRATION IN ERA
2004-2006
(Inventarierea si interconectarea centrelor de cercetare din Romania si integrarea acestora in ERA)

Contract No . 510475 financed by European Commission

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Keywords: AND OR Search

[View all](#)

No	Name	Institution name and Initials
1	Ph.D Professor Ioan ANDONE	"Alexandru Ioan Cuza" Iasi, UAIC, Faculty of Economics and Business Administration (FEAA), Dept. of Business Informatics
2	DR. VICTOR AUREL ANDREI	Institute for Nuclear Research
3	Dipl. engineer Anca Smaranda Angelescu	National Institute for Research and Development in Microtechnologies, IMT-Bucharest
4	Senior scientist Ioan Ardelean	Institute of Biology
5	Profesor Steponas Asmontas	Semiconductor Physics Institute
6	Ph.D. eng. Marioara Avram	National Institute for Research and Development in Microtechnologies (IMT - Bucharest)
7	Assoc. Prof. Mitra Baleva	Sofia University, SU
8	Ph.D Engineer Mihaela Banu	University of Galati
9	Dr. Marius Bazu	National Institute for Microtechnologies IMT
10	Assoc.Prof. LIDIA BENEÄ	Dunarea de Jos University of Galati, UGAL

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ROMANIAN Inventory and NETworking for Integration in ERA

ROMNET-ERA

Contract No. 510475, financed by European Commission, 2004-2006

Previous issues are available on the project website: www.romnet.net
E-newsletter No. 30, May 5, 2005

Versiunea originala a acestui e-newsletter (si numerele anterioare), la adresa www.romnet.net/ro/arhiva.htm

Nou

- ▶ Dezvoltarea colaborării între unitățile și instituțiile de cercetare-dezvoltare, universități și operatori economici va fi susținută prin **Programul de cercetare de excelență – CEEEX**, discutat joi, 28 aprilie 2005 în ședința de Guvern (sursa: www.guv.ro). Programul va fi finanțat de la bugetul de stat prin alocații, prevăzute cu această destinație, în limita fondurilor aprobate prin bugetul Ministerului Educației și Cercetării. Programul are un caracter multianual și se derulează în perioada 2005-2008 [[mai multe detalii...](#)]

Evenimente viitoare:

- ▶ La data de 10 mai 2005, Ministerul Educației și Cercetării organizează, cu suportul logistic al proiectului ROMNET-ERA, în amfiteatrul Bibliotecii Academiei Române (intrarea prin Bv. Dacia), seminarul "**NANOEDUCATION: Problematika Educației și Instruirii în Nanostiință și Nanotehnologie, în contextul integrării europene a României**". Aceasta manifestare urmează unui seminar pe această temă organizat de Comisia Europeană (14-15 aprilie 2005). [Programul seminarului](#) este în curs de completare (a se vedea www.romnet.net); cei interesați de tematica sunt rugați să completeze [formularul de înregistrare](#) la seminar. Se sponsorizează deplasarea specialiștilor din provincie.
- ▶ "**4th Annual Meeting of the European Tissue Engineering Society**", 31 august - 3 septembrie 2005, München, Germania; Termen trimitere rezumate: 8 mai 2005.
- ▶ "**ESONN'05 - European School On Nanosciences & Nanotechnologies**", 21 august - 9 septembrie 2005, Grenoble, Franța; Termen trimitere aplicații: 15 mai 2005.
- ▶ "**E-MRS 2005 Fall Meeting**", 5 - 9 septembrie 2005, Varșovia - Polonia; Termen trimitere rezumate: 20 mai 2005
- ▶ "**The Protein World**", congres organizat de **FEBS (Federația Europeană de Biochimie)**, 2 - 7 iulie 2005, Budapeșta, Ungaria; Termen trimitere rezumate: 31 mai 2005

Carti de nano-biotehnologie:

- ▶ **Microchip manufacturing**
Autor: Stanley Wolf
Anul apariției: 2004
ISBN: 0-9616721-8-8
- ▶ **Correlation Spectroscopy of Surfaces, Thin Films, and Nanostructures**
Autori: Jamal Berakdar, Jürgen Kirschner
Anul apariției: 2004
ISBN: 3527404775

- ▶ Dacă aveți întrebări, comentarii sau sugestii, vă rugăm să ne scrieți pe adresa webmaster@romnet.net;
- ▶ Pentru a nu mai primi acest newsletter vă rugăm să trimiteți un mesaj la webmaster@romnet.net;
- ▶ Dacă citiți o ediție primită de la un prieten și doriți să primiți direct newsletter-ul, vă rugăm să accesați următoarea adresă:
http://www.romnet.net/db/news_reg.htm;



The nanoLINK platform is launching

MINAEAST-NET e-Newsletter



No. 4/ Weeks 10-15 /2005

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Contract no: 510470 (2004- 2006)

Project web page: www.minaeast.net

1. East/West Partnering Workshop within the MINAEAST.NET Initiative - 22 Apr 2005 (9-15 h), Fraunhofer IZM Berlin - TU Berlin F&P Microperipherics, Gustav-Meyer Allee 25, D-13355 Berlin, Germany. Organisers: [Karl-F. Becker](#), TU Berlin/FhG-IZM, Berlin, Germany [Patric Salomon](#), 4M2C PATRIC SALOMON GmbH, Berlin, Germany. [Agenda](#)

2. The 7th Framework Programme will be organised in four specific programmes, corresponding to four major objectives of European research policy: **Cooperation; Ideas; People; Capacities**
We present here two themes from the "Cooperation" part:
- [Information and Communication Technologies](#)
- [Nanosciences, Nanotechnologies, Materials and new Production Technologies](#)

For complete information see <http://www.cordis.lu/fp7/> (published on Cordis on 6th of April, 2005)

3. [NanoMicroClub Meeting](#) - 28th April, The Fabriam Centre, Newcastle (contact: eleanor@nano.org.uk)



4. [2005 NSTI - Nanotechnology Conference and Trade Show Nanotech 2005](#); May 8-12, 2005; Anaheim Marriott&Convention Center; Anaheim, California, U.S.A.
Join 130 Exhibiting Companies & 2500 Participants

5. [EuroNanoForum2005: "Nanotechnology and the Health of the EU Citizen in 2020"](#), Edinburgh, 6-9th September 2005. For further information please contact Carrie Smith (carrie@nano.org.uk) or on 01786 447520

6. [7th International Symposium „TECHNOMAT & INFOTEL 2005" Materials, Methods and Technology](#); September 7 - 10, 2005 - HOTEL COMPLEX Ministerial Council - Republic of Bulgaria, Sunny Beach resort.
Organized by: Bulgarian Academy of Science; Union of Scientists in Bulgaria; "Prof. Dr. Assen Zlatarov" University; Science Invest LTD - branch Bourgas;

7. On 4 April 2005, **INTAS**, the International Association for the promotion of cooperation with scientists from the New Independent States (NIS) of the former Soviet Union, launched the first stage of its Open Call for Research Projects Proposals 2005-2006. [Details](#).



The nanoLINK platform is launching

MINAEAST-NET e-Newsletter



No. 2/ Weeks 5- 7 /2005

Edited with the support of EU project MINAEAST-NET
Contract no: 510470 (2004- 2006)

1. Renzo Tomellini presents the EU Policy and Nanosciences and Nanotechnologies taking place in Bucharest, on 17 th January, 2005 (details [here](#)) Dr. Renzo Tomellini, Head Nanotechnologies Unit, European Commission, Research DG presented " Priority 3 – NMP here some aspects related to *nanoscience and nanotechnology*.

Mr. Tomellini explained that Europe enjoys a strong position in terms of producing knowledge (publications). However, Europe is weaker in transforming this knowledge into products at start-ups) and also has a lower level of private R&D funding from industry in comparison to (full presentation is available [here](#)).

Other major points have been:

- Is there a European Strategy for Nanotechnology? (see [here](#) for details)
- FP6 from 2004 to 2005. What does priority 3 NMP cover? What is new related to nanotech for details).

2. MINAEAST-NET is offering you grants for traveling to meetings (for training or proposal preparation) at other facilities. You can apply for benefiting from the MINAEAST EU project for:

- Travel grants;
- Dissemination by various means (electronic, printed), free of charge
- Electronic facilities for networking and proposal preparation
- Databases for proposal preparation

To receive complete information, please take a minute to complete the questionnaire (access to minaeast@imt.ro).

3. NANOPOLIS- "Exploring Nanotechnology"



NANOPOLIS is inviting you to participate to the upcoming "Exploring Nanotechnology" in the Nanopolis encyclopedias and Virtual Show. The "[Exploring Nanotechnology](#)" encyclopedia is the result of the cooperation of over 200 research groups worldwide. It explains topics of interest in nanotechnology in a widely accessible manner. To each topic it associates summary charts representing the main classes of industrial and research players and their interdependence. It also includes presentations of companies active in the field (e.g. instrument manufacturers, nanomaterials users, IP lawyers etc.)."



*Nanopolis™ (www.nanopolis.net) is a virtual space mirroring the evolution of nanotech research and integrating it with education and industry. The scientific content of Nanopolis™ is "gathered" in real-time due to a close partnership with the scientific community.

4. Various events

- NSTI - CEI Nanotechnology Course Series, 21-24 March 2005, Davos, Switzerland.** Registration form on the website: www.nsti.org/courses/accomodations.html#davos (NEXUS-MEMS)
- Advanced Nanotechnology - Materials, Processes, Structures and Applications, 4th - 8th April 2005** NMRC - Cork - Ireland For details on how to register for this Vision on-line Training Week please contact info@nmrc.ie
- Sabanci University, Faculty of Engineering & Natural Sciences, Microelectronics Engineering Program.** TURKEY, organized a national optics, photonics, electro-optics workshop with a specific focus on Micro and Nano technologies on December 10, 2004. This has turned into a one of the biggest Scientific events in Turkey with more than 200 people already registered and about 50 scientific oral and poster presentations. The MINAEAST-NET Project was promoted during this one-day event through a leaflet sent by coordinator. Coming soon: Info day for micro-nano technologies organised by Sabanci University, Faculty of Engineering & Natural Sciences, Microelectronics Engineering Program, TURKEY; Contact person: [Prof. Yasar GURBUZ](mailto:Prof.Yasar.GURBUZ)

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Conclusion (1)

- Romanian programmes in support for European integration
- CEEX
 - Topics from FP7!
 - “Instruments”:
 - Networks as poles of excellence in advanced technologies
 - Integrated technological networks >> European technological platforms



Conclusion (2)

- A formidable challenge
 - Highly advanced topics and an enormous field
 - European cooperation
 - “New instruments”?
 - Mixing research with support actions?
 - Extensive networking
 - Experience of evaluators?
- Flexibility, possibilities of correction?