

Launching of another networks from FP6

Advanced MEMS For RF and Millimeter Wave Communications

AMICOM - NoE FP 6-priority 2, IST, Contract no.: 507352

Coordinator: Prof. Robert Plana - LAAS CNRS Toulouse, France, plana@laas.fr

The **AMICOM** network of excellence will conduct activities in the following domains

- Identification of the expertise in the field of RF MEMS in Europe (including the facilities);
- Strengthen the RF MEMS activity in Europe;
- Common PhD student supervision and exchange of senior researchers;
- Appropriate training activity in the field of RF microsystems (International Master Program, Summer School);
- Improvement of the communication through electronic communication, web journal, common management of the Intellectual Property (IP) and knowledge and know-how (creation of an IP entrance point);
- Participation in the definition of the roadmap and in the preparation of the 7th Framework program;
- Common research activities;
- Initiate new research projects through STREPs, FETs or Integrated Projects;
- Technology transfer to SMEs and training for SMEs;
- Dissemination of the results achieved within the network (Workshop www.laas.fr/MEMSWAVE, Summer School, publications, website www.laas.fr/AMICOM).

"**AMICOM**" will be structured into three groups of activities (with the corresponding workpackages):

- GA 1: Integrating RF-MEMS activities;
- GA 2: Joint RF-MEMS research activities;
- GA 3: Activities to spread excellence in RF-MEMS.

The project started in January 2004 and will continue for 3 years (22.01.2004 **kick-off meeting** in Toulouse, France). There are 25 partners from 14 countries: France, Sweden, United Kingdom, Switzerland, Greece, Belgium, Romania, Poland, Finland, Italy, Israel, Germany, Turkey, The Netherlands. Partners from Eastern Europe: IMT Bucharest, Romania and Institute of Electronic Materials Technology (ITME), Warsaw, Poland.

Advanced Handling and Assembly in Microtechnology **ASSEMIC**

Marie Curie Research Training Network

Coordinator: Prof. Dr. Werner Brenner (Werner.Brenner@TUWien.ac.at) - Institute of Sensors and Actuators Systems, Vienna University of Technology-ISAS

The **ASSEMIC** project (<http://www.assemic.net/website/>) is devoted to training and research in handling and assembly at the micro-dimension, involving advanced methods and tools and providing a multidisciplinary, complementary approach. This is to be achieved by combining the research competence of R&D centres and universities, with the application oriented view from SMEs and industrial partners. In the project there are involved 14 partners from different countries: Austria, Switzerland, Germany, Greece, Italy, Poland, Portugal, Romania, Spain and United Kingdom, coming from different research fields.

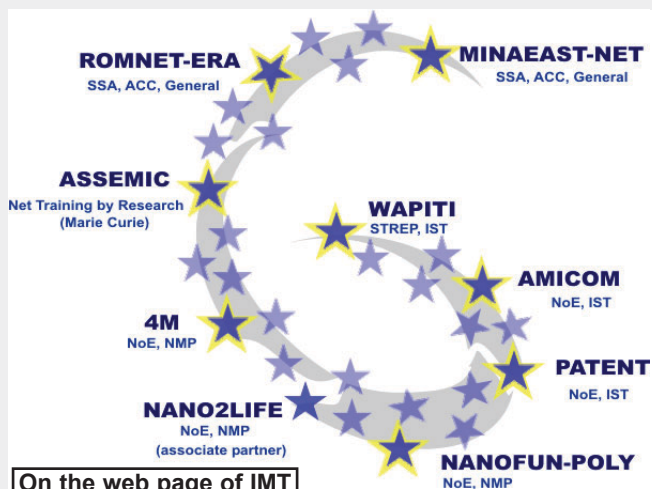
The main objectives of the project are:

1. High resolution positioning systems, micromotors and microrobots.
2. Advanced tools and control for microhandling (visual/force feedback, haptic interfaces, etc.).
3. Microassembly tools and strategies (self-assembly, bonding, soldering).
4. Quality management for industrial manufacturability.
5. Know-how management (e-learning, technology transfer and dissemination, etc.).

The project started in January 2004 and will continue for four years.

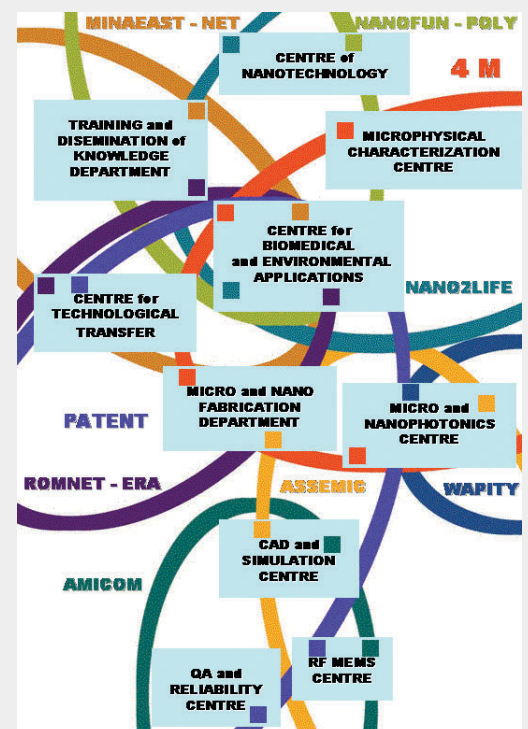
The **kick-off Meeting** was held in Vienna at ISAS (29-31 January 2004).

IMT- Bucharest in FP6



- **AMICOM - Advanced MEMS for RF and Millimeter Wave Communications;**
Coordinator: Prof. Robert Plana (plana@laas.fr) - LAAS-CNRS Toulouse, France (see above)
- **4M - Multi-Material Micro Manufacture: Technologies and Applications;**
Coordinator: Dr. Stefan Dimov (Dimov@cf.ac.uk) - Cardiff University, Cardiff, United Kingdom
- **ASSEMIC - Advanced Handling and Assembly in Microtechnology**
Coordinator: Prof. Dr. Werner Brenner (Werner.Brenner@TUWien.ac.at), Institut für Mikro-und Feinwerktechnik, Technische Universität Wien-IMFT, Wien, Austria (see above)
- **MINAEAST - Micro and NANotechnologies going to EASTern Europe through NETWORKing;**
Coordinator: National Institute for Research and Development in Microtechnologies, Bucharest, Romania, Prof. Dan Dascalu (dascalu@imt.ro), (see page 6).
- **ROMNET - ERA - Romanian Inventory and Networking for Integration in ERA;**
Coordinator: National Institute for Research and Development in Microtechnologies, Bucharest, Romania, Prof. Dan Dascalu (dascalu@imt.ro), (see page 9).
- **WAPITI - Wafer bonding and Active Passive Integration Technology and Implementation**
Coordinator: Dr. Helmut Heidrich (Helmut.Heidrich@hhi.fraunhofer.de), Fraunhofer Institute for Telecommunications, Heinrich Hertz-Institut, Berlin, Germany

- **PATENT - Design for Micro & Nano Manufacture (Packaging, Test and Reliability Engineering in Micro & Nanosystem Technologies)**
Coordinator - Dr. A Richardson (A.Richardson@Lancaster.ac.uk), University of Lancaster, United Kingdom (see page 2)
- **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)
- **NANO2LIFE - A network for bringing NANOtechnologies TO LIFE**
Coordinator: Dr. Patrick Boisseau, (patrick.boisseau@cea.fr) CEA France



The diagram shows how the centres and labs from IMT-Bucharest (blue rectangles) are interacting with the projects from FP 6 (arches in various colors).