

Dear Readers,

Welcome to the 1st FP7 NANOSENS project newsletter!

NANOSENS is a Regional Potential project funded under the FP7 Framework Programme of the European Commission. The project is aiming at upgrading the research and innovation capacity of the National Institute of Research and Development for Technical Physics (NIRDTP).

The main topics of the project are indicated below:

A: Microsensors for
Medical
Applications

B: Biosensors
based on
Nanoparticles and
Barcode Nanowires

The project activities will involve the following points:

- Organise twinning activities between the European research organizations and the NIRDTP in order to exchange scientific knowledge and set up joint experiments in the field
- Increase the visibility of the NIRDTP's research activities in the European Research Area (ERA)
- Support the RBG in increasing its expertise in the defined research topics and stimulate cooperation and partnership with the EU research organisations: researchers' exchange between NIRDTP and EU partners, knowledge transfer, and joint research
- Train the NIRDTP's staff on the most advanced topics of micro- and biosensor research
- Train the NIRDTP's staff on the opportunities for their research within EU-funded programmes
- Evaluate the NIRDTP's research capabilities and prepare a road map for research over the next 5 years.

In this newsletter we provide information on interesting topics related to the project in order to foster cooperation between researchers in the field of sensor and nanomaterial research.

Consortium Partners

COORDINATOR



National Institute of Research and
Development for Technical Physics
Romania

www.phys-iasi.ro



Sheffield Centre for Advanced Magnetic
Materials and Devices within the
Department of Engineering Materials,
University of Sheffield, UK

www.magnetics.group.shef.ac.uk



Department of Materials for Information
Technologies in the Instituto de Ciencia
de Materiales de Madrid, Spain

www.icmm.csic.es



Instituto de Engenharia de Sistemas e
Computadores para os Microsistemas e
as Nanotecnologias (INESC MN),
Portugal

www.inesc-mn.pt



Institut Català
de Nanociència
i Nanotecnologia

Nanobioelectronics & Biosensors Group
in the Institut Català de Nanotecnologia,
Barcelona, Spain

www.icn.cat



Solid State Physics group within the
Department of Physics and Astronomy,
University of Glasgow, UK

www.gla.ac.uk/schools/physics/



ulm university universität
uulm

Materials Science Electron Microscopy
Department at the University of Ulm,
Germany

www.uni-ulm.de/en/einrichtungen/

Successful Kick-Off Meeting

The Kick-Off Meeting of the NANOSSENS Project was held in Iasi, Romania during the 14-16 October, 2013 and it was hosted by the National Institute of Research and Development for Technical Physics (NIRDTP).

The meeting aimed to bring together the partners of NANOSSENS in order to discuss in detail the strategic and operational issues linked to the project implementation, especially during the first year. The presentations and discussions included the topics of twinning, recruitment, development and update of research equipment, workshops and conferences, dissemination activities, IPR and capacity building plan, evaluation, project management and further funding possibilities, such as Eureka Eurostars and Horizon2020.

The participants of the meeting arrived from Spain, Portugal, Greece, Luxembourg and Romania. Main discussions and visiting the facilities of NIRDTP were held on the 15th October. The event closed with a dinner at a Romanian restaurant, which provided a great opportunity for informal discussions and networking. Photos of the meeting are presented on the right and below.



Manuel Vázquez Villalabeitia holding a presentation on the research priorities of ICMM-CSIC



Diana Cristina Pinto Leitão holding a presentation about INESC MN



Left: The audience, Right: Visiting the Clean Room facilities



Manuel Vázquez Villalabeitia, Arben Merkoçi and Dimitris NIARCHOS visiting the facilities



The NANOSSENS project team with the Coordinator Horia Chiriac in the centre and the employees of NIRDTP

General Progress

Hiring new employees

NIRDTP has hired 6 Experienced Researchers and an IP and Innovation Manager in the frame of the project, namely

- ✚ Experienced Researchers:
 - Dr. Adrian Gheșeș
 - Dr. Hari Srinivas Goripati
 - Prof. Ibro Tabakovic
 - Dr. Arne Lüker
 - Dr. Chaker TLILI
 - Dr. Lawrence Whitmore
- ✚ IP and Innovation Manager:
 - Thomson DOHERTY



The last candidate for the last Experienced Researcher position is under selection.

Twinning visits

Regarding the planned visits with the 6 international top level research groups, in summary, some of the short-term visits have taken place to NIRDTP, and most of the long-term visits have been postponed to the second year of the project.

Upcoming Events

Dissemination workshop to the regional sensing sector is planned for September 2014. Further details on the exact date will be published on the NANOSSENS website at <https://nanosens.phys-iasi.ro>

To download our project flyer, please visit the NANOSSENS website or click [here](#).

<p>The FP7 NANOSSENS Project</p> <p>NANOSSENS aims to upgrade the research and innovation capacity of the National Institute of Research and Development for Technical Physics (NIRDTP) to the highest European level in microsystems for medical applications and biosensors based on magnetic nanoparticles and nanowires.</p>  <p>The NANOSSENS project is a support action, which is funded by the European Commission under the Capacities area - Research - Potential of Convergence Regions theme of the 7th Framework Programme (FP7). The project started in June 2013 and will run for a period of 42 months. It is being implemented by an excellent and skillful consortium composed of seven partners. The twinning and cooperation partners will help and guide NIRDTP with their expertise and knowledge in sensing applications.</p>	<p>Contact Information</p> <p>For more information about the NANOSSENS project and/or start an R&D collaboration with NIRDTP, please do not hesitate to contact:</p> <p>Prof. Horia Chirilac FP7 NANOSSENS Project Coordinator Email: hchirilac@phys-iasi.ro</p>  <p>Visit the NANOSSENS website: http://nanosens.phys-iasi.ro</p> <p>NIRDTP Website: http://www.phys-iasi.ro/</p>	<p>NANOSSENS</p> <p>June 2013 – November 2016</p>  <p>Upgrading the capacity of NIRDTP to develop sensing applications for biomedicine using magnetic nanomaterials and nanostructured materials</p> <p>http://nanosens.phys-iasi.ro</p>  <p>Co-funded by the 7th Framework Programme of the European Union</p>
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The First Bilateral Seminar and the Steering Committee Meeting

This First Bilateral Seminar took place on the 28-29 May 2014 in Iasi, Romania at the same time with the Steering Committee meeting. The seminar was hosted by National Institute of Research and Development for Technical Physics and it took place at the institute's building and collected 30+ participants.

One bilateral seminar was planned to be organized each year by NIRDTP to coincide with the know-how exchanges with the twinning partners. During the bilateral seminars, NIRDTP planned to discuss potential joint research proposals for submission to Horizon 2020 for research topic A and B.

The 1st seminar took place with the participation of three twinning partners, local participants from the institute and with the participation of the National Contact Point from the Romanian Ministry of National Education.

Presentations were held on Day 1 to initiate discussions on potential research proposals for certain identified calls by the speakers which could be of interest of the NIRDTP. Discussions on the calls and ideas on potential project proposals continued on Day 2 of the meeting.

During the Steering Committee Meeting at the end of Day 1, the partners discussed project progress during the first year of NANOSSENS and future plans.

Photos of the meetings are presented on the right side and below.



Thomson Doherty holding a presentation on the Cooperation Roadmap of NIRDTP



The audience at the First Bilateral Seminar



Stephen McVITIE holding a presentation University of Glasgow, next to him are Dan Allwood and Manuel Vázquez Villalabeitia



Letiția Clara Pavelescu - National Contact Point from the Romanian Ministry of National Education – holding presentation to the NANOSSENS participants on Horizon2020



Dan Allwood holding a presentation on SCAMMD

CONTACT INFORMATION

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