



## ENGINews Nº 40, 4<sup>th</sup> April 2013

### Awards

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#### Biomedical Engineering student wins Best Student Paper Award

Austria, 13<sup>th</sup> to 15<sup>th</sup> February



Carlos Faria, PhD student of Biomedical Engineering of the EEUM, won recently the Best Student Paper Award at the 10th IASTED International Conference on Biomedical Engineering, with the paper entitled “Robotic Assisted Deep Brain Stimulation Neurosurgery: first steps on system development”. The paper was written in the framework of the MSc student in Biomedical Engineering and was coordinated by Professor Estela Bicho (from the Department of Industrial Electronics, also researcher from the Algoritmi Research Centre, of the EEUM) and Doctor Manuel Rito (Neurosurgery Service of the Hospital and University Centre of Coimbra – CHUC), counting also on the collaboration of Professor Wolfram Erlhagen (Department of Mathematics and Applications of the School of Sciences of the UMinho) and Sérgio Monteiro (from the Department of Industrial Electronics, also researcher from the Algoritmi Research Centre, of the EEUM).

[More...](#)

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### Internationalisation

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#### Dean of the EEUM visits Angola

13<sup>th</sup> to 25<sup>th</sup> March, Angola



Aiming at strengthening and broadening the international partnership network of the EEUM, specially concerning the Community of Portuguese Language Countries (CPLP) and the Portuguese Speaking African Countries (PALOP), the Dean of the EEUM visited four higher education institutions in Angola: the Universidade Jean Piaget (UJP), which commemorated the first lessons of the master courses in cooperation with the EEUM, and also the Universidade Agostinho Neto (UAN), Instituto Superior de Ciências Policiais e Criminais (ISCPC) and Instituto Superior Técnico Militar de Angola (ISTM), with which the EEUM will soon start a closer collaboration.

The Dean of the EEUM also participated in the Seminar “Sustainable economic growth and human development”, organized by the company M. Couto Alves (MCA). During the seminar, the official cooperation agreement between MCA and the UMinho was signed.

The EEUM thus reinforces the strategic goal of strengthening the cooperation with the CPLP and, in particular, the PALOP, expanding its network of international partners.

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### Visit of University of Zawiya

*Campi of Gualtar and Azurém, 14<sup>th</sup> March*



The EEUM received a visit of a delegation of the University of Zawiya, Libya, which included the Rector of the University, Professor Dr. Mostafa Jomaa Sahbun, the Director-general for Research and Post-graduation, Professor Almabrouk Mansor Abogderah, and the Director for International Relations, Professor Dr. Hosein Ali Tahir Elboiashi. The visit aimed at identifying common interests which could lead to the establishment of a formal partnership concerning education, research and academic mobility. The delegation of the University of Zawiya was initially received by the Rector of the UMinho. Afterwards, a visit to the EEUM took place, both in Gualtar and Azurém.

### Visit of the Instituto Superior Técnico, Angola

*Campus of Azurém, 18<sup>th</sup> March*



A delegation from the Instituto Superior Técnico (Technical Institute) of Angola (ISTA), comprised by the President of the Board, Eng. Arsénio Mateus, and Professors Dr. Paulo de Jesus, Dr. Vítor Mendes and Dr. Francisca Silva, visited the EEUM. The visit aimed at presenting both institutions and starting the preparation of a formal cooperation agreement regarding education and research, namely in the scientific areas of informatics and information systems management. The visit of the ISTA is part of the internationalisation strategy of the EEUM, particularly oriented towards the PALOP as a privileged network of partner institutions.

### Visit of the Instituto Superior Técnico Militar, Angola

*Campi of Gualtar and Azurém, 28<sup>th</sup> March*



In March, the EEUM also received a visit from the Instituto Superior Técnico Militar (Military Technical Institute) of Angola (ISTM), namely from three members of the ISTM: the Director, Lieutenant-general Jaime Vilinga, the Director for Education, Brigadier Belmiro Rosa, and Professor José Manuel Santos Cruz. With this visit, which started with the official welcome session at the Rectory of the UMinho, the delegation of the ISTM had the opportunity to know the *campi* and facilities of the UMinho. A generic agreement protocol to be established between the two institutions was proposed, which will be signed during an official ceremony in Angola. Following this visit, it is expected that an addendum to the agreement is prepared, in order to provide a framework to the cooperation of the EEUM in education projects of the ISTM.

### Researchers create injectable gel for bone regeneration



A group of researchers from the FUNCARB – FUNctional CARBohydrates Nanobiotechnology Group of the Centre for Biological Engineering (CEB) of the EEUM is developing an injectable hydrogel for bone regeneration. The product provides a solution for fractures, degenerative diseases and aging problems.

The project is called REBONE and is funded by the EuroNanoMed programme. The major objective of the project is the development of superior biomaterials and therapeutics for osteoregenerative medicine, in order to address the growing cumulative stress on the skeletal system due to the increase in life expectancy. We will develop injectable hydrogels incorporating self-assembled nanogels for the delivery of non-hydrophilic pharmaceuticals. The hybrid hydrogels will also provide stability to Bonelike graft granules and entrap mesenchymal stem cells. Such a system will result in a minimal invasive surgical procedure with decreased patient morbidity, lower risk of infection and reduced scar formation.

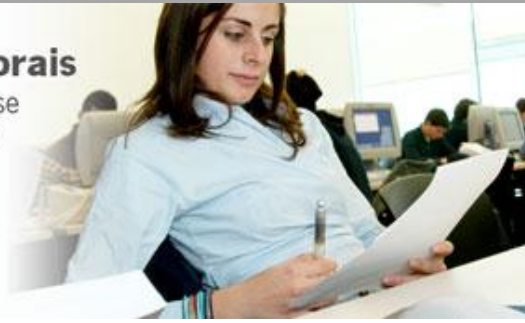
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## Doctoral Programmes

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**Programas Doutorais**  
Candidaturas - 1ª fase  
2 a 12 de abril de 2013



**Applications are now open.**

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