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Commemoration of 35 years graduating Industrial Engineers

Department of Production and Systems (DPS)



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EuroSpine 2013 Best Full Paper Award for 3B's researchers

Liverpool, 19^o October



Miguel Oliveira and Joana Silva-Correia, PhD researchers from the Research Group on Biomaterials, Biodegradables and Biomimetics (3B's) of the EEUM, member of the Associate Laboratory ICVS/3B's, under the supervision of Professor Rui L. Reis (director of the 3B's and professor from the Department of Polymer Engineering – DEP – of the EEUM), were recently awarded by the EuroSpine – The Spine Society of Europe due to their scientific contribution for research on intervertebral disc regeneration. The award recognises the most important scientific paper in this area, published in 2013 in the framework of the DiscRegeneration project, which aimed at assessing the biological performance of several biomaterials developed by the researchers. The study brings 4 years of pre-clinical research to conclusion and opens new treatment possibilities for several spine pathologies, such as disc herniation or other degenerative alterations of the intervertebral disc.

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Researchers from C-TAC granted Best Paper Award

Vila Nova de Cerveira, 16^a to 20^a October

The paper “The potential of vernacular materials to the Sustainable building design”, written by Jorge Fernandes, PhD student in Civil Engineering, Ricardo Mateus and Luís Bragança, professors from the Department of Civil Engineering (DEC), all researchers from the Centre for Territory, Environment and Construction (C-TAC) of the EEUM, was granted the Best Paper Award on the theme Energy Efficiency & Sustainability during the international conference Vernacular Heritage & Earthen Architecture: Contributions for Sustainable Development. The event is one of the world's most prestigious conferences on vernacular construction and traditional constructive systems. The paper was selected among 400 papers through a process of peer blind review developed by the Scientific Committee, which included 281 international experts. The paper was also published by CRC Press / Taylor & Francis Group.

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Researcher from CEB awarded Best Oral Presentation

Frascati, Italy, 22nd to 26th October

Ângela Abreu, post-doctoral student of the BRIDGE – Bioresources, Bioremediation and Biorefinery Group, from the Centre of Biological Engineering (CEB) of the EEUM, was granted the Best Oral Presentation Award at the International Workshop on Environment and Alternative Energy promoted by the National Aeronautics and Space Administration (NASA) and the European Space Agency (ESA). The researcher presented her work entitled “Biohydrogen production using bionanocoatings for immobilizing highly efficient hydrogen-producing bacteria”.

Due to the relevance of this meeting, the Luso-American Development Foundation (FLAD) awarded Ângela Abreu with a travel grant.

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Student of Materials Engineering wins Award of the Portuguese Board of Engineers

Coimbra, 6th November

Cristiana Alves, student of the Integrated Master in Materials Engineering of the EEUM, received the 1st Prize of the Board of Engineers Award 2013. The award is granted to the best work for industry of the 2nd degree courses' finalists in Science and Materials Engineering in Portugal. The research “Development of nanostructured coatings for osseointegrated implants“ was conducted at the Centre of Physics (CFUM) under the supervision of Professor Sandra Carvalho, from the Department of Physics of the School of Sciences. The award was presented during the commemorations of the “International Day of Materials 2013”, which took place at the Board of Engineers, Central Region Headquarters (Coimbra), an event organized by the Portuguese Materials Society and the College of Materials Engineering of the Board of Engineers.

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Dinis Leitão wins Best Original Written Work Award

Dinis Leitão, professor from the Department of Civil Engineering (DEC) of the EEUM, was granted the Best Original Written Work Award, promoted by the Portuguese “Sociedade Ponto Verde” and the Principia Publisher, within the Green Project Awards.



The work, entitled “Rates and Sustainable Procedures in Urban Operations”, focuses on the promotion of new urbanization and building methods, defining new ways of urban management which take sustainable procedures in urban planning operations into account. The project aims at allowing the harmonization of national laws with European Directives in order to enable, for example, the use of theories such as the Certified Emission Reductions (CERs).

The award is granted to non-published academic and scientific work, or other original production under the theme “environment and sustainability”, offering the possibility to publish the work.

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Project of the CEB awarded at Nutrition Awards 2013

The project BioNutriCoat – edible coating with nutritional value, was awarded the 3rd Honorable Mention in the Research & Development Category at the Nutrition Awards 2013. The project, developed by the researchers Ana Pinheiro, Philippe Ramos, Ana Bourbon, Hélder Silva and Miguel Cerqueira, led by Professor António Vicente, from the Centre for Biological Engineering (CEB) of the EEUM, focuses on a type of technology which allows not only increasing the storage period of food products but also incorporating functional composites with added nutritional value to the consumer. The BioNutriCoat is presently under scale-up and industrial validation through one of the UMinho’s spin-offs, Improveat, Lda. The next stage will imply contacts with the industry and marketing of the developed product.



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Rosa Vasconcelos elected to IEEE Education Society's Board of Governors

Oklahoma, USA, 26th October

Professor Rosa Maria Vasconcelos, President of the Pedagogical Council and Vice-Dean of the EEUM, was elected to a 3-year term as an At-Large Member of the IEEE (Institute of Electrical and Electronics Engineers) Education Society's Board of Governors (EdSoc). The mandate will start in January 2014 and last until December 2016.

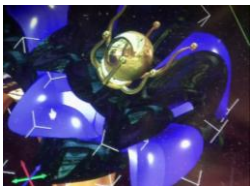


Member of the Board of the Portuguese Society for Education in Engineering, Professor Rosa Maria Vasconcelos has supervised several scientific studies on education and organization of Engineering in Portugal, employment and transition to the marketplace, the relationship between universities and secondary level schools, and encouragement of higher education in Engineering – themes which are being studied and monitored by the Dean's office and the Pedagogical Council of the EEUM. The election as a member of the Board of Governors of the IEEE's EdSoc represents an added-value to this organisation as well as the recognition of the work developed by Professor Rosa Maria Vasconcelos in the framework of Education for Engineering.

[To learn more about IEEE's Education Society...](#)

Gold in colour

The research team led by Filipe Silva, professor and director of the Department of Mechanical Engineering (DEM) of the EEUM, has developed technology which allows producing gold pieces in colours from scratch.



The project may advance towards business models and usage in medical and dental prosthetics. The technology is pigment free; instead, it is based on a three dimensional printer which works with pure gold powder and applies it in nanoparticle layers, in such a layout that defines the colour. The project Gradouro, jointly developed by the Centre for Mechanical and Materials Technology (CT2M) of the EEUM and by the Centre of Physics of the UMinho, has already been awarded in the 25th edition of the Santa Fe Symposium, in 2011, the world's largest symposium in jewellery, with the Applied Engineering Award, and is considered one of the main world leading projects in this area.

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Commemoration of 35 years graduating Industrial Engineers

Campus of Azurém, Room EE2.74, 25th October to 8th November

The Department of Production and Systems (DPS) and the Alumni Group of Engineering and Industrial Management (EGIUM) of the EEUM promoted the commemorative exhibition entitled “Commemoration of 35 years graduating Industrial Engineers”. The opening ceremony counted on the presence of the Vice-Rector of the UMinho, Professor José Mendes, the Dean of the EEUM, Professor João Monteiro, as well as professors, alumni and present students.



The initiative aimed at marking the date when the first degrees of the UMinho, including Production Engineering, were created, as published in the Portuguese Government Official Journal (*Diário da República*) on the 25th October 1978. The exhibition showed the journey from the creation of this first degree, with different specialization options (Plastics, Textile, Civil Construction and Public Works, Metal-mechanics and Systems) up to the current Integrated Master Course in Engineering and Industrial Management (MIEGI). More than 1100 have graduated in this area at the UMinho – all of their names were referred in the exhibition. It was also possible to sign the Roll of Honour and have a cup of coffee with the DPS' staff.

The closing session took place on the 8th November, counting on the participation of the Rector of the UMinho, Professor António M. Cunha, and of the President of the Pedagogical Council of the EEUM, Professor Rosa Vasconcelos. A commemorative lunch was also organized to celebrate the event.

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