



## ENGINews N° 31, 2<sup>nd</sup> August 2012

### Awards

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#### Research Project from HASLab wins Google Research Award



Google  
Faculty Research Awards

The ongoing research project “Minha”, taking place at the High-Assurance Software Laboratory (HASLab) of the EEUM and at the INESC TEC, Associated Laboratory, was granted the Google Research Award. The project aims at simplifying and improving software for cloud computing, i. e., “virtual clouds” which allow storage and the use of data anytime, anywhere. The Google Research Awards are established by the renowned search engine based on a selection of ideas of all domains of the company’s performance worldwide. For the present edition, 104 proposals have been selected, mainly from the USA, in 21 scientific areas, to which a total funding of around six million dollars has been granted.

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### News

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#### Patronage in Polymer Engineering – ITJ – Internacional Moldes, Lda Award



The company ITJ - Internacional Moldes, Lda, of the TJ Moldes Group, recognized the strategic interest of advanced training in Polymer Engineering for the mould and plastic sector and has celebrated a cooperation agreement with the Department of Polymer Engineering (DEP) of the EEUM. ITJ – Internacional Moldes, Lda, will grant an award to the student with the best access grade who enrolls, for the first time, in the Integrated Master Course on Polymer Engineering in the academic year of 2012/2013. The award is equivalent to the annual inscription fee.

#### Jorge Martins tests biodiesel’s efficiency in South American expedition



Jorge Martins, professor at the Department of Mechanical Engineering (DEM) of the EEUM, will travel 13.000kms between the Atlantic and the Pacific Ocean, crossing Amazonia and the Andes both ways, aiming at testing the efficiency of the biodiesel automobile fuel. Jorge Martins is currently at the Polytechnic School of the Federal University of Bahia (UFBA) researching on biodiesel. In this expedition, the researchers will use two pick-up trucks, in order to compare their performances; one will use petrol, the second will use pure biodiesel (B100), 100% natural and produced with vegetable oil from hospitals, restaurants and “acarajé” (Brazilian delicacy) production, in the Pilot Plant for Biodiesel Production at UFBA.

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## Paper from 3B's researcher in the cover of Tissue Engineering



The paper “Angiogenic Potential of Gellan-Gum-Based Hydrogels for Application in Nucleus Pulposus Regeneration: In Vivo Study”, from Joana Silva Correia, researcher at the Biomaterials, Biodegradables and Biomimetics Research Group (3B's) of the EEUM was the cover of the June edition of the journal Tissue Engineering - Part A. The paper was co-written by the researchers Vera Miranda Gonçalves, António J. Salgado, Nuno Sousa, Joaquim M. Oliveira, Rui M. Reis and Rui L. Reis.

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## Contemporary dance uses EEUM's technology

Centro para os Assuntos da Arte e da Arquitetura, Guimarães, 11<sup>th</sup> July



The choreography Strings of Thought, created in one of the artistic residencies of Guimarães – European Capital of Culture 2012, combines contemporary dance with the EEUM's technology. Lígia Teixeira, dancer and choreographer, was suspended by a set of cables scattered across the stage. Electronically programmed, each cable had the capacity to transform the performer's movements into variations of sound and light. The Department of Mechanical Engineering (DEM) of the EEUM, the master course in Technology and Digital Art and the engageLab laboratory of the UMinho participated in this project.

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## “Electric Cars” reached the top of the sales chart of EngeBook



The book “Electric Cars”, written by Professor Jorge Martins and post-doc student Francisco Brito, of the Centre for Mechanical and Materials Technology (CT2M) of the EEUM ([ENGINews](#) n.º 23), reached the 1<sup>st</sup> place of the sales chart of the dealer EngeBook.

The book, published by Publindústria, in partnership with the EEUM, broadly illustrates the evolution of this type of vehicle and intends to support the growing impact of this technology, not only in automobile industry but also in society in general.

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## Events

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### Inauguration of the Design Institute

Design Institute, Guimarães, 14<sup>th</sup> July



The Design Institute in Guimarães was inaugurated by the Secretary of State Attached to the Minister of the Economy and Regional Development, António Almeida Henriques. The Institute is located in the old factory “Ramada”, in the Couros area, a building with a deep historical significance, connected to the industrial past of the city and which has been rehabilitated in the framework of the *CampUrbis* project.

The *CampUrbis* project aims at rehabilitating the urban area and the constructed patrimony of the Couros area and is developed under a partnership led by the Guimarães Municipality, in which the UMinho as well as other entities of the city also take part.

The Institute will receive the new first cycle degree in Product Design of the UMinho this September, a degree which results from a partnership between the EEUM and the School of Architecture.

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