



ENGINews N° 29, 15<sup>th</sup> June 2012

## Workshop ECUM-EEUM

### Science & Engineering: Research and innovation towards sustainable development

Campus de Azurém, 1<sup>st</sup> June



The School of Sciences (ECUM) and the School of Engineering (EEUM) of the University of Minho organised the workshop entitled “Science & Engineering: Research and innovation towards sustainable development”, aiming at showing the main projects and the results of the co-operation between the two largest Schools of the UMinho.

In the opening ceremony, the Presidents of the ECUM and the EEUM, namely, Professor Estelita Vaz and Professor Paulo Pereira, were able to explain how both Schools participate in projects of common interest which gather the competences of the researchers of both Schools, sharing their knowledge and experience in the domain of science and technology.

Two parallel sessions followed, in the theme areas of “Systems and Informatics; Environment and Construction” and also “Biosciences and Bioengineering; Biomaterials; Materials”, with the presentation of 16 joint research projects.

Afterwards, Professor Cândida Lucas (ECUM) and Professor Paulo Lourenço (EEUM) presented the Institute for Bio-Sustainability. The construction work of the facilities will start briefly. The building will welcome researchers and multi and interdisciplinary projects, where basic and applied research work together for sustainable development. The new materials and bio-inspired systems will be the basis of innovative projects which may attract the interest of the industrial sector.

In the afternoon, the presentation of projects involving researchers from both Schools took place. The co-operation between ECUM and EEUM was proven to be very intense, mainly in the area of advanced materials, including biomaterials, and their application in areas such as electronics, textiles or health.

A discussing forum was held, with the participation of invited speakers: Henrique Neto, João Bento, Manuel Caldeira Cabral, Estelita Vaz, Paulo Pereira and Jorge Fiel, vice-director of the “Jornal de Notícias” national newspaper, acting as moderator.

In the closing session, the Vice-Rector of the UMinho, Professor Graciete Dias, congratulated the ECUM and the EEUM for this initiative to show, not only to the UMinho’s academic community, but also to society in general, the co-operation work and the sharing spirit demonstrated by the presented projects and the joint activities of the researchers of both Schools.

## Awards

---

### Paulo Flores wins "Professor João Martins" Young Researcher Award



Professor Paulo Flores, from the Department of Mechanical Engineering (DEM) of the EEUM, was granted the Professor João Martins' Young Researcher Award in Applied and Computational Mechanics 2011, by the Portuguese Association of Theoretical, Applied and Computational Mechanics (APMTAC). The award ceremony will take place in the next Congress of this association, in Bilbao, Spain, in June 2013.

This award, granted for the first time to a researcher of the UMinho, honours young researchers which stand out in any area of Applied and Computational Mechanics according to the number and impact of papers published in international scientific journals or that have significantly contributed to the advancement in this scientific area, in terms of pedagogical activity and regarding the co-operation with the industrial sector.

[More...](#)

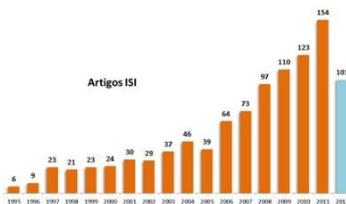
---

## News

---

### Biological Engineering of the EEUM celebrates the 1000th ISI scientific publication

Campus of Gualtar, 11<sup>th</sup> June



The Centre for Biological Engineering (CEB) of the EEUM celebrated its 1000th ISI scientific publication with a solemn ceremony. The 1000 scientific papers were published in international journals recognized by the Institute of Scientific Information (ISI). The impact of the papers has consistently increased, and last year CEB published 154 ISI papers, within which more than 60 percent were published in the best journals in the world. An honorific award was granted to the authors of the 1000th publication, which was handed over to the authors by the Rector of the UMinho, Professor António M. Cunha.

### Paulo Flores presides over the Technical Committee for Multi-body Dynamics of the IFToMM



For the next two years, Paulo Flores, Professor from the Department of Mechanical Engineering (DEM) of the EEUM, will be the Chair of the Technical Committee for Multi-body Dynamics of the IFToMM - International Federation for the Promotion of Mechanism and Machine Science.

Paulo Flores is the only Portuguese to ever preside a Technical Committee of this Federation, which aims at promoting research and scientific development on Machinery and Mechanisms, and gathers national associations from 57 countries. Paulo Flores, who is an observer member of the Commission since 2006, was elected to this position during the Commission's Annual Meeting, which took place in the University of Stuttgart, Germany.

[More...](#)

---

---

## Patrimony Yearbook published with the participation of the EEUM



The EEUM is one of the institutional partners of the first Patrimony Yearbook published in Portugal. The first edition focuses on the theme area “Good Practice of Conservation and Restoration”; it contains technical and scientific reviewed by an independent scientific commission, specialist in Training, Research and Public Policies, and important directories, gathered in the “Sector Agents Directory” (Patrimony Directory). This Yearbook aims at constituting an exclusive information tool and at becoming a useful guide for all those who are interested in Patrimony protection, whether for professional or personal reasons.

The first edition includes an interview to Scalzi Award winner, Paulo B. Lourenço, professor at the Department of Civil Engineering (DEC) and Director of the Institute for Sustainability and Innovation in Structural Engineering (ISISE) of the EEUM.

[More...](#)

---

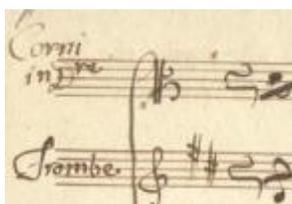
## Algoritmi Research Centre develops technology which identifies personal rhythm in typing



The Algoritmi Research Centre of the EEUM and the company Critical Software have developed a technology to identify personal rhythms in keyboard typing, which will provide increased security for citizens and national or international institutions. Keystroke Dynamics traces the biometrical profile of the legitimate user, through successive identity verifications. From then on, any typing attempt from intruders will be immediately detected, triggering a set of previously defined actions.

---

## Informatics of the EEUM launch WikiScore, wikipedia for music



Researchers from the Department of Informatics (DI) of the EEUM, in collaboration with colleagues from the Department of Music of the UMinho, have created the WikiScore platform, a kind of Wikipedia for the production of music content (music sheets) in wide scale. The platform is already working, in <http://natura.di.uminho.pt/wiki-score>, and will be officially presented during the 16th International Conference on Electronic Publishing, which will take place in Guimarães this week.

---

**ENGINews** is a publication of all members of the EEUM.

Please send your news to [divulgacao@eng.uminho.pt](mailto:divulgacao@eng.uminho.pt)



The editors of the **ENGINews** are entitled to select the information to be published. Thank you for your understanding.