



# Sustainable Construction & Design

Proceedings of the Day of Research 2010







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## Organizing Committee

Jan De Pauw  
Stijn Hertelé  
Wouter Ost  
Yeczain Perez Delgado  
Vanessa Rodriguez Ferreira  
Mohsen Safaei  
Jeroen Van Wittenberghe  
Matthias Verstraete  
Prof. Patrick De Baets  
Prof. Wim De Waele

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## Preface

The first edition of the Day of Research in 2009 was organized to promote the research performed at the Laboratory Soete of Ghent University. In this ambitious second edition the scope is expanded to our associate partners of the HoGent and Howest and to the partner institutions of the Belgian Welding Institute, OCAS and the Szent István University in Gödöllő, Hungary in order to promote the scientific research performed in the field of mechanical engineering in these institutions.

Therefore this edition of Sustainable Construction & Design is dedicated to all contributions to the Day of Research 2010. Special attention is given to our master thesis students, which on this day will present the current status of their work. We hope that this day will enable them and all other attending students to get in touch with young, motivated researchers with whom they will have the opportunity to discuss during the breaks and that this leads to a positive input into their own research.

The presented program gives a good overview of current hot topics in mechanical engineering. Contributions are made from the field of biomechanical engineering, tribology, musicology, design, welding technology, numerical modelling and fatigue.

Finally, our thanks goes to our students, the authors, the presenters and the participants, we hope everybody enjoys this year's Day of Research.

Jeroen Van Wittenberghe

February 2010



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