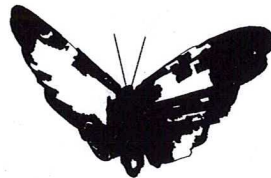


INTERNATIONAL CONFERENCE
ENGINEERING EDUCATION IN SUSTAINABLE DEVELOPMENT

EESD'10

Göteborg, Sweden
19-22 September 2010



BOOK OF ABSTRACTS

ORGANIZERS:



CHALMERS



ROYAL INSTITUTE
OF TECHNOLOGY

Engineering Education in Sustainable Development, EESD'10 19-22 September, Gothenburg, Sweden

ORGANIZED BY:

Chalmers University of Technology, Gothenburg, Sweden
KTH Royal Institute of Technology, Stockholm, Sweden

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Preface

Engineering Education in Sustainable Development 2010, EESD '10, is the fifth conference in a series of biannual international conferences dealing with all aspects of the education of engineers for sustainable development.

Sustainable development requires a shift towards a society that better addresses basic human needs and the limitations of natural systems. A transformation of e.g. mindsets, educational approaches, societal structures, technical systems and economic accounting methods is needed. Engineering education institutions can play an important role in this transformation and in the sustainable society if sustainable development becomes a framework for a redesign of the structure and goal of organizations and of pedagogical, research and cooperation approaches and methods. This conference addresses the role of engineering education in the learning for the required transformation.

The conference is arranged by Chalmers University of Technology and KTH Royal Institute of Technology. EESD '10 takes place at Chalmers on the 19-22 September 2010.

On behalf of the organizing committee we wish you very welcome to EESD '10.

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**Towards to industry driven research introduction in Electro - magnetic compatibility engineering
doctoral studies**

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For sustainable development of every technological process operation the electric - magnetic compatibility of each particular equipment in the process is critical. Each time, when it is new technological process or particular equipment put in service, the electric - magnetic compatibility should be proved. There is a huge interest from industrial partners, to take part in existing research, to use existing equipment for testing, taking part in student's researches. There are several ongoing researches in new material designing in EMC, as most important is NMP-FP7-2010-3.4-1 project MAPICC 3D (One-shot Manufacturing on large scale of 3D up graded panels and stiffeners for lightweight thermoplastic textile composite structures) proposal. The existing capability and expertise of scientific group, with cooperation of industrial partners allow to prepare project proposal preparation for Marie Curie actions for early stage research. This experience will bring new issues in researchers training and benefits for all partners education and training process structuring.