Subtheme:

Transformable and adaptable buildings, building systems and components

Elma Durmisevic (Netherlands)
Subtheme: Transformable and adaptable buildings, building systems and components

- Outline for a publishable report
- Activities 2008 per country
- Conference in Twente
Subtheme: Transformable and adaptable buildings, building systems and components

Outline for a publishable report:

- New educational projects
- Research projects
- From theory to practice projects
- Regulations
Activities 2008 Netherland

New educational projects

Msc2: International design studio (TU Delft)
“Design and construction of a transformable polyvalent pavilion”

New Master Track at the University Twente “Building systems design”
focus on green design and Engineering of building systems and components

Msc2: TEMPUS project
Msc2: TEMPUS project
Delft / Sarajevo / Istanbul 2008
New master track

Architectural Building Systems Design & Engineering
Bridging the gap between industrial design and architecture
Towards Green Design And Engineering Of buildings and its components

Reuse of Building Components and Systems

Dr. Elma Durmisevic
University Twente
New master track

Master Track deals with design and development of industrialized buildings

Focus on:
- Flexibility
- New and sustainable Materials
- Energy
- Demountable techniques
- Integrated solutions
- Reuse and Reconfiguration
- Customization of Industrial production

Towards new architecture - industrialisation of construction
Students will be involved in:

- Design of flexible buildings and systems
- Study of building and systems configurations and interfaces
- Study of Different load-bearing systems in different materials
- Study and analyses of Climate and Installation concepts
- Life cycle assessments
- Product design for buildings
- Integrated design of systems and buildings through integrated design
Students will design and develop their own systems and will work together with the industry on development of a **flexible, energy effective and multipurpose building**.
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Activities 2008 Netherland

Research projects

- PhD research “interfaces for open systems“
  Focus on design for disassembly, interface typologies, systems and components compatibility through interface rules

- PhD research “Transformable building systems for adoptable hospitals"

- PhD subjects at University Sarajevo

- Setting up of a 3TU research group

- Collaboration with the research group at the University Brussels on number of PhD topics

Environmental en eco costs assemsents
• BASE ELEMENT SPECIFICATION on different building levels

1. System as intermediary
2. Element as intermediary
3. Accessory connection as intermediary

Elma Durmisevic
4D ARCHITECTS / TU Delft
Activities 2008 Netherland

From theory to practice projects

- Innovation Platform
  Development of flexible and dismountable systems with the industry
  1. Development of Extension modules
  2. Flexible systems combination housing- health
  3. Development of new transformable/adaptable construction concept
  4. Life cycle costing models (renting vrs selling of the components and systems)
  5. Indicators of transformability / adaptability
Design of industrially produced individual building

Elma Durmisevic
4D Architects
Design of industrially produced individual building
the Loftcube project
by werner aisslinger

>>> enter
flashplayer and quicktime required

Elma Durmisevic
4D ARCHITECTS
Subtheme: Transformable and adaptable buildings, building systems and components

Activities 2008 Sweden

- New educational projects
  Number of lectures
  An information lecture on DfD in building construction is also given to a great number of communities.

- Research projects
  investigate and analyse some DfD building projects, mainly in Europe.

- From theory to practice projects
  DfD for building construction in Sweden

- Regulations
Subtheme: Transformable and adaptable buildings, building systems and components

Activities 2008 UK

Research projects

1. Viability of leasing systems/financial models
2. Environmental benefits of adaptable buildings (i.e. benefits and methodology);
3. Material/product usage related to adaptability - link to Green Guide, multifunctional, durability etc
4. Indicator of adaptability (link to GreenPrint )
5. MMC and adaptability
6. Link to climate change issues (Roadmap development - undertaken with Lougnhoro?)