Programme for NordDesign 2008

August 20th Wednesday
17:30 – 19:00 Registration and Welcome (Grand Hotel Tallinn, 6.th Floor, Grand Parliament Room)

August 21th Thursday (Lecture hall VII 226)

08:00 Transfer bus from Grand Hotel Tallinn to Tallinn University of Technology
08:30 – 09:00 Registration and morning coffee: (Atrium before Lecture hall VII 226)

09:00 – 09:30 Opening ceremony, welcome speeches and announcements Lecture hall VII 226
Opening: Prof. Peep Sürje, rector of Tallinn University of Technology
Welcome: Mihkel Randruüt, Ministry of Economic Affairs and Communications

09:30 – 10:00 Keynote lecture:
  Competitiveness strategy: problems, challenges and opportunities,
  Dr Jüri Riives, Federation of Estonian Engineering Industry

10:00 – 10:30 Coffee/Tea

10:30 – 12:00 Session: Product Design Methods (Lecture hall VII 226)
  Chair: Prof. Jan-Gunnar Persson

  Product Design and Intentional Emergence facilitated by Serious Play
  Ade Mabogunje, Poul Kyvsgaard Hansen, Ozgur Eris and Larry Leifer

  A Functional Model for the Function Oriented Description of Customer-Related Functions of High-Variant Products
  Daniel P. Politze and Stefan Dierssen

  Synergy-Based Design of Light Fittings
  Tiit Hindreus, Andres Martin and Vello Reedik

  Application of evolutionary methods for solving multi-disciplinary optimization problems in engineering
  Jüri Majak, Rein Küttner, Meelis Pohlak, Martin Eerme and Kristo Karjust

12:00 – 13:30 Lunch

13:30 – 15:00 Session: Product Development, Quality and Efficiency
  Chair: Assoc. Prof. Jóhannes Sigurjónsson

  Product Development and Manufacturing in High Cost Countries - Restrictions and Options
  Peter Leibl, Rolf Pfeiffer and Christiane Nischler

  Optical quality as a product attribute – a descriptive study from the automotive industry
  Karin Forslund and Rikard Söderberg

  Tactile Qualities of Materials in Consumer Product Packaging
  Linda Tangeland, Kjersti Øverbø Schulte and Casper Boks

  Augmented Reality Efficiency in Manufacturing Industry: A Case Study
  Juha Sääski, Tapio Salonen, Marja Liinasuo, Jarkko Pakkanen,
15:00 – 16:00 **Poster Session & Coffee/Tea**

16:00 – 17:30 **Session: Problems and goals of Product Development**  
**Chair: Assoc. Prof. Poul Kyvsgaard Hansen**

- **On the content of design problems**  
  Claus Thorp Hansen and Mogens Myrup Andreasen

- **A Proposal for a Mindset of a Project Manager**  
  Joakim Eriksson and Claus Thorp Hansen

- **Delivery Project in the Context of Product Life Cycle**  
  Seppo Suistoranta

- **Value in Conceptual Design Context**  
  Oja, Hannu

17:35 Transfer bus from Tallinn University of Technology to Grand Hotel Tallinn
18:30 Transfer bus from Grand Hotel Tallinn to von Glehns Castle
18:45 Transfer bus from Tallinn University of Technology to von Glehns Castle

**19:00 Conference Dinner at von Glehns Castle** (Vana Mustamäe tee 48)

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**August 22th Friday**

08:00 Transfer bus from Grand Hotel Tallinn to Tallinn University of Technology
08:30 – 10:00 **Session: Sustainable Design** (Lecture hall VII 226)  
**Chair: Prof. Peter Leibl**

- **Nordic Post-graduate Sustainable Design and Engineering Research from a supervisor perspective**  
  Casper Boks, Andrius Plepys, Tim McAloone, Mikko Jalas, Henrikke Baumann, Mattias Lindahl and Niki Bey

- **A Constraint-based Approach to Sustainable Design and Development**  
  Helen Liang, Glen Mullineux, Geoff Hammond

- **The expert-layperson divide in design for sustainable behavior: Related risks and the value of involvement**  
  Ida Nilstad Pettersen and Casper Boks

- **Development of a sustainable training to enhance methodological competence**  
  Christian Geis, Herbert Birkhofer and Petra Badke-Schaub

10:00 – 10:30 Coffee/Tea

10:30 – 12:00 **Session: Product Flexibility, - Families, Education and Training**  
**Chair: Prof. Martin Eerme**

- **A close look on product flexibility**  
  Andreas Bischof, Patrick Müller and Luciënne Blessing,

- **Integrating Product Structures, Production Processes and Networks for the Development of Product Families**
Antti Pulkkinen, Petri Huhtala and Asko Riitahuhta

Design Students’ Preferences and Conceptions of Idea Generation in Groups
Lassi A. Liikkanen and Matti K. Perttula

A reflection on cross-cultural study trips with large groups of industrial design students
Casper Boks, Jóhannes Sigurjónsson and Ida Nilstad Pettersen

12:00 – 13:30 Lunch

13:30 – 15:00 Session: Knowledge Management
Chair: Prof. Johan Malmqvist
The Semantic Interaction of Knowledge, Data and Processes within the Product Development Process
Markus Zoier, Michael Maletz and Dan Brisson

Issues and challenges for improving email use In engineering design
Craig Loftus, James Wasiak, Ben Hicks and Chris McMahon

Comparing and Integrating Methods of Design Activity Documentation Across Synchronous and Asynchronous Modes of Collaborative Work
N. L. Eng, M. D. Giess, A. P. Conway, R. H. Bracewell, W. J. Ion and C. A. McMahon

Designing work procedures for Project Portfolio Management
Ernesto Gutiérrez, Jenny Janhager, Sofia Ritzén and Gunilla Ölundh Sandström

15:00 – 16:00 Poster Session & Coffee/Tea

16:00 – 17:30 Session: System and Component Design, Product Service
Chair: Dr Petri Makkonen
Over- and understeering with a Limited Slip Differential
Jüri Resev, Lembit Roosimölder and Marko Siitas

What characterise an attractive Machine Element?
Sören Andersson

Describing a mechanical model of a novel axial piston type steam expander
Rasmus Grip and Jan-Gunnar Persson

Considerations towards Systematic Engineering of Product Service Systems
Christoph Schendel, Tobias Spahl, Herbert Birkhofer

17:40 Transfer bus from Tallinn University of Technology to Grand Hotel Tallinn

August 23th Saturday

08:30 Transfer bus from Grand Hotel Tallinn to Tallinn University of Technology

09:00 – 11:00 Workshops: (Atrium and lecture hall VII 226)

1. Industry: Augmented Assembly
   chair: Prof. Asko Riitahuhta

2. Research in Product development: Status and emerging topics
   chair: Assoc. Professors Poul H.K. Hansen and Claus Thorp Hansen

11:30 – 12:00 Plenary session: Summary and conference closing
Cultural Event:
Visiting Estonian Open Air Museum
12:10 Transfer bus from TTU to Estonian Open Air Museum
12:30 Lunch in tavern Kolu Kõrts
13:30 – 15:00 Guided tour to museum
15:00 - Transfer bus from Open Air Museum to Grand Hotel Tallinn

Conference Posters (Atrium before lecture hall VII 226)

Micro Surgical Design Knowledge Organisation
Alexia K. Grech and Jonathan C, Borg

Systematic Generation of Innovative Sheet Metal Profiles using Modified TRIZ
Nils Hirsch, Markus Mauf and Herbert Birkofer

New Demands on Design for Disassembly to Improve Recycling of Electrical and Electronical Products
Kristoffer Aagaard Eriksen

Towards Integrated Modelling of Product Lifecycle Management Information and Processes
Dag Bergsjö, Amer Ćatić and Johan Malmqvist

The embodied mind in relation to thinking about form development
Shahriman Zainal Abidin, Hans V. Bjelland, and Trond Are Øritsland

Biomimicry – a useful tool for the industrial designer
Nina Louise Volstad and Casper Boks

Design education with simulation games
Tero Juuti, Timo Lehtonen and Poul Kyvsgaard Hansen

Comprehensive design and development projects as master project assignments – Renewing engineering design education
Knut Aasland

Device and software for educational simulation and design of dynamic dampers
Petri Makkonen, Huszár István, Eric Coatanéa and Tanja Saarelainen

Simplified Shape Optimisation Technique For The Design of Notched Machine Parts TS
Hans-Bernhard Woyand, Mihail Aignatoaie, Rolf Kamps, Nicolas Hoppe

Actively articulated suspension for a four-wheeled vehicle
Ardi Seidla