

RATIONAL DESIGN AND OPTIMIZATION OF MATERIALS AND STRUCTURES – PAST, PRESENT AND FUTURE

WORKSHOP

6 April 2011 at Aalborg University, Department of Mechanical and Manufacturing Engineering

In celebration of the 70th birthday of

**Professor, Dr.techn.
Niels Olhoff**



Location: Fibigerstræde 16, Room 1.208, DK-9220 Aalborg East, Denmark

PROGRAMME:

| | |
|---|---|
| 9:00-9:45 | Breakfast – Buffet |
| 9:50:10:00 | Welcome Head of Department, Martin Heide Jørgensen |
| 10:00-10:30 including 10 min for discussions | Singular Optimum Topology of Frame Structures and Numerical Algorithms for Maximizing Frequency Prof. Gendong Cheng |
| 10:30-11:00 including 10 min for discussions | Historic Applications of the Olhoff-Cheng Principles in Topology Optimization Prof. George Rozvany |
| 11:00-11:30 including 10 min for discussions | Parameter Optimization of a Neuro-Musculo-Skeletal Model for Human Locomotion Prof. Werner Schiehlen |
| 11:30-12:00 including 10 min for discussions | Optimized Designs for 2D Thermoelastic Structures Prof. Pauli Pedersen |
| 12:00-13:00 | Lunch, AAU restaurant, Fibigerstræde 15 |
| 13:10-13:40 including 10 min for discussions | Hierarchical Optimization of the Structure and its Material: New Developments and Applications Prof. Helder Rodrigues |
| 13:40-14:10 including 10 min for discussions | Robust Topology Optimization Considering Geometric Imperfections Prof. Ole Sigmund |
| 14:10-14:40 including 10 min for discussions | For our common Benefit - Cooperation between University and Company Dr. Andreas Back-Pedersen |
| 14:40-15:10 including 10 min for discussions | Modeling and Simulation of Offshore Drilling Equipment Prof. Michael Rygaard Hansen |
| 15:10-15:40 | Refreshments |
| 15:40-16:10 including 10 min for discussions | On some Olhoff Results in Structural Optimization Prof. Erik Lund |
| 16:10-16:40 including 10 min for discussions | Optimization from Structures to Biology Prof. John Rasmussen |
| 16:40-17:00 | Plenary discussion and closing remarks |
| 17:00-18:30 | Reception at the Department of Mechanical and Manufacturing Engineering, Fibigerstræde 16, room 1.201 |

REGISTRATION:

Participation is free of charge (including printed abstracts, refreshments, lunch and reception).

To register for the workshop please do so by e-mail to Secretary Lis Bach, E-mail: sekr@m-tech.aau.dk; Phone: +45 9940 8981.

Deadline for registration is Wednesday 30 March 2011.