

Programme

9.00 Welcome

Jens Chr. Rauhe
Grundfos

9.20 Session 1

Chair: Jens H. Andreasen, Aalborg University

Design of Composite Chassis for the Aquilla Synergy Race Car

A. P. Knoll, E. N. Paul, F. Torlaschi, K. S. Kristiansen

Control and Implementation of a Permanent Magnet Synchronous Motor in a CowBrush Unit

E. Olesen, R. Starup-Hansen, K. Labata

Agent-Based Framework for Reconfigurable Manufacturing Systems

A. Vinulescu, D. Sarancic, M. Kolek, S. Zelazny

Substructure Testing and Structural Optimisation of a Wind Turbine Blade Web Bond Detail

B. Saurdal, J. Bjoner, M. Steffensen, N. Gripon, P. Broberg, R. Hole

10.40 Short Break

11.00 Session 2

Chair: Mikael Larsen, Aalborg University

Design of Glass Fibre Reinforced Polyester Monocoque for Formula Student Race Car

A. Olesen, C. Simonsen, J. Sørensen, N. Broberg, N. Radhakrishnan

Permanent Magnet Synchronous Machine-Magnetic Lead Screw model based studies on passive and semi-active suspension

A. Stupakowski, A. Højris, M. Pentek, M. Stati, V. Mishukov

Study of Functionalized Carbon Nanotubes Polymer Composites

J. Krarup, M. Dahl, S. Rassay

Batching using reinforcement learning

M. Hildebrand, J. Frendrup, M. Sarivan

12.20 Poster session 1 and Lunch Break

13.30 Session 3

Chair: Jens H. Andreasen, Aalborg University

Metal to Composite

D. Villadsen, F. Prieto Viejo, J. Mato Sanz, P. J. Jaume Camps and S. Hermansen

Redesign and Control of a Trolley Propulsion System with a PMSM using FOC

S. Christensen, A. Fenollosa J. Mortensen

Using Calcium Carbonate to Alter the Mechanical Properties of Recycled High Density Polyethylene

J. B. Koldsø, P. Kruse, R. H. Jermiin

Summary

Grundfos

14.45 Poster Session 2

15.45 Award Ceremony

The Mechanics and Manufacturing Engineering Student Symposium aims at providing a new platform for the dissemination of results obtained on the second semester of the specializations Manufacturing Technology (VT), Materials Technology (MTEK), Design of Mechanical Systems (DMS), and Electro Mechanical System Design (EMSD).

The papers presented are published on the official symposium homepage: <http://www.mechman.mp.aau.dk/>

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- Assoc. Prof. Jens Chr. M. Rauhe, Aalborg University, Denmark
- Assoc. Prof. Jens H. Andreasen, Aalborg University, Denmark

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DEPARTMENT OF MATERIALS AND PRODUCTION
AALBORG UNIVERSITY

Invitation

to

MechMan 2019

7th Student Symposium on Mechanical and Manufacturing Engineering

14th of June 2019

Fibigerstræde 16, 1.108, Aalborg East

Conference Chairman:

Assoc. Prof. Jens Chr. Rauhe,
Aalborg University, Denmark

The symposium is sponsored by:

