

THE 21st ANNUAL INTERNATIONAL SICOMP CONFERENCE PITEÅ SWEDEN JUNE 3-4, 2010

THURSDAY JUNE 3, 2010

- 10.15 – 10.45 **Registration/Coffee**
- 10.45 – 11.00 **Welcome**
- 11.00 – 11.25 **Anoush Poursartip – University of British Columbia, Canada**
Effective process simulation for composites manufacturing: Understanding the engineering application and getting the science right
- 11.25 – 11.50 **Staffan Lundström – Luleå University of Technology**
Modelling of particle deposition during impregnation of dual-scale fabrics
- 11.50 – 12.15 **Magnus Svanberg – Swerea SICOMP**
Processing science as an effective tool to optimize design and manufacturing processes
- 12.15 – 13.30 **Lunch**
- 13.30 – 13.55 **Michael R. Wisnom – University of Bristol, UK**
Residual stresses and distortion in curved composites: Mechanisms and models
- 13.55 – 14.20 **Tonny Nyman – Saab Aerosystems**
The composite design process – A key to reduced lead time and enhanced quality
- 14.20 – 14.45 **Ragnar Larsson – Chalmers University of Technology**
Infusion modelling using two-phase porous media theory
- 14.45 – 15.10 **Martin Nagelsmit – National Aerospace Laboratory NLR, The Netherlands**
A new fibre placement architecture for improved damage tolerance
- 15.10 – 15.40 **Coffee**
- 15.40 – 16.05 **David W. Jensen – Brigham Young University, USA**
Automated continuous manufacturing of composite grid structures
- 16.05 – 16.30 **Fredrik Ohlsson – Oxeon AB**
Advantages of ultra light woven spread tow fabrics
- 16.30 – 16.55 **Kingsley K.C. Ho – Imperial College London, UK**
Design and manufacturing of multifunctional composites for energy storage devices
- 20.00 – **Dinner**

FRIDAY JUNE 4, 2010

- 08.35 – 09.00 **Mohini Sain – University of Toronto, Canada**
Structural micro-biocomposites – Research to commercialization
- 09.00 – 09.25 **Kristiina Oksman Niska – Luleå University of Technology**
Nanofibers and crystals extracted from natural resources and their use in composites
- 09.25 – 09.50 **Alexander Bismarck – Imperial College London, UK**
Nanocellulose as building block for new materials
- 09.50 – 10.20 **Coffee**

SESSION 1 – MANUFACTURING AND DESIGN:

- 10.20 – 10.45 **Sébastien Taillemite – Cray Valley SA, France**
Innovative fire resistant resins & gelcoat for composite
- 10.45 – 11.10 **Siti Ros Shamsuddin – Imperial College London, UK**
Interface engineering of unidirectional carbon fibre reinforced polyvinylidene fluoride
- 11.10 – 11.35 **Alexander Roth – Evonik Röhm GmbH, Germany**
The use of foam-filled sandwich structures for aerospace applications
- 11.35 – 12:00 **Johanna Dreißig – Fraunhofer Institute of Structural Durability and System Reliability, Germany**
Fatigue design optimization of safety components made of SMC

12.00 – 13.00 Lunch

- 13.00 – 13.25 **Franziska Regel – University of Minho, Portugal**
Cost reduction in manufacturing of aerospace composites

- 13.25 – 13.50 **Hans Lilholt – Technical University of Denmark, Denmark**
Biobased materials – strength, structure, processing and performance of cellulosic fibres and their composites

- 13.50 – 14.15 **Stefan Johansson – Applied Composites AB**
Development and production of an exhaust channel for missile launch system for corvette Visby

- 14.15 – 14.40 **Magnús Rafnsson – Linudans ehf. and HiST University College, Iceland**
High voltage towers and composite materials

Final remark

Coffee

- 15.15 – 16.30 **OPEN HOUSE at Swerea SICOMP**



SESSION 2 – BIOCOMPOSITES:

- Göran Grubbström – Luleå University of Technology**
Influence of processing parameters on crosslinking efficiency of wood-polyethylene composites

- Heidi Peltola – VTT Technical Research Centre of Finland, Finland**
Effects of physical treatments of wood fibres on fibre morphology and biocomposite properties

- Roberts Joffe – Luleå University of Technology**
Suitability of man made cellulose fibers as reinforcement for bio-based polymer composites

- Birgitha Nyström – Swerea SICOMP**
Mechanical performance and damage tolerance of bio-based polymer composites with man made cellulose fiber reinforcement

- Geoff Gibson – University of Newcastle, UK**
Qualification and lifetime modelling of fiberglass pipe

