March 30 - 1 April 2020
Location Beurs van Berlage, Amsterdam
Organization: SAMPE Benelux and SAMPE Europe

The Future Composite Footprint

WEDNESDAY 30 SEPTEMBER

9.00 - 9.00 Registration & Coffee
9.00 - 11.00 Opening & Plenary Session
• Welcome, by Bert Vangrimde, Huntsman, Chairman of SAMPE Benelux
• Opening, by Prof. Boris Tadic, ToD, President of SAMPE Europe
9.15 - 10.30 3 Key-Note Speakers
• The Future Materials & Processing Footprint in Aeronautics, by Bert Thuis, Royal N. L. Netherlands
• Sustainability in Aviation: Composite Manufacturing and Characterisation, by José Enriquez, Boeing Research & Technology Europe, Spain
• The Future Composite Footprint in Automotive, by Prof. Frank Henning, IKT Fraunhofer, Germany
10.30 - 11.30 Coffee Break
11.00 - 13.00 4 Parallel Sessions

Session chair: Ron van Hoorn, Evonik, Netherlands

Room 1 THERMOPLASTIC COMPOSITES
Session chair: Prof. Rolf Moeller, Roth Labs AG, Switzerland

• Briend, Shell, Groenendijk, The Netherlands
• Insurers for thermal protection
• Towards a safer manufacturing environment through the introduction of a new concept: the self-sealing composite panel

Room 2 GENERAL MANUFACTURING & TOOLING
Session chair: Prof. Mats Harder, Delft University of Technology, The Netherlands

• Direct 3D printing of durable fibre reinforced composites for additive manufacturing
• A functional electrical conductive component free of metallic materials

Room 3 AUTOMATION COMPOSITES
Session chair: Ben Thuis, Royal N. L. Netherlands

• TP-RTM Interfacial & Impact Testing with Polyether Imide (PEI) Film Layers
• Fibre-Reinforced Polyether Ether Ketone (PEEK) in Aerospace Applications

Room 4 INFRAM & ARCHITECTURE
Session chair: Ronal G., Stein, Germany

• FP7-PELITE: Industrial Applications of Polymer Matrix Composites
• New polymer matrix composites for aerospace applications

13.00 - 14.00 Lunch
14.00 - 15.20 4 Parallel Sessions

Session chair: Bert Thuis, Royal N. L. Netherlands

Room 1 3D PRINTING
Session chair: Prof. Tony van Reys, Eindhoven University of Technology, The Netherlands

• Biomechanical studies on the ability of 3D printing to reproduce mechanical behavior of tissue
• Prototyping & additive manufacturing: a new concept for medical implants

Room 2 AUTOMATION
Session chair: Prof. Bjorn Morath, University of Stavanger, Norway

• Optimisation and monitoring of orthogonal robotic work cells for automated composite manufacturing
• Time management and quality of robotic production

Room 3 DIGITAL FABRICATION
Session chair: Prof. Peter Middendorf, Stuttgart University, Germany

• Image processing algorithms for error detection during the manufacture of composite structures
• Metalization of thermoset and thermoplastic composites: two perspectives

Room 4 JOINING & BONDING
Session chair: Bert Thuis, Royal N. L. Netherlands

• Metal-bonding technology for highly effective aluminium joining
• Redesigning the membrane method of joining for the aerospace industry

15.20 - 16.50 Tea Break
15.50 - 17.30 4 Parallel Sessions

Session chair: Hans van Herk, Brind, Germany

Room 1 AUTOMATION
Session chair: Prof. Peter Harder, Delft University of Technology, The Netherlands

• Requirements and performance of high precision tooling & handling for advanced composite manufacturing
• Tilted tooling: A new concept for high precision tooling and handling for composite manufacturing

Room 2 INFRAM & ARCHITECTURE
Session chair: Prof. Pieter Kok, Eindhoven University of Technology, The Netherlands

• Large parts, localisation and reactive stresses associated with composite structures
• Mechanical load tests for the optimization of composite structures

Room 3 DIGITAL FABRICATION
Session chair: Prof. Philip Druiff, National Composites Centre, UK

• New developments in composite manufacturing with additive processes for aerospace applications
• To be announced

Room 4 JOINING & BONDING
Session chair: Hans van Herk, Brind, Germany

• Polymer-foam composites for lightweight structures
• Design and fabrication issues for tomorrow’s lightweight structures
• Analytical and experimental investigations on the bonding of thermoplastic composites