

High Performance Composites Manufacturing – Advances in Automation

Organised by

SAMPE UK & Ireland Chapter

Supported by:

**National Composites Network
St Gobain Performance Plastics**

Background

The high performance composites industry has taken up many innovative materials and process technologies over the past few years. Whilst these have delivered successful products, it has become increasingly clear that improved efficiency through automation is essential for series production. SAMPE UK & Ireland Chapter has organised a one-day seminar to disseminate and discuss the progress in this field. It is supported by Cranfield University, Nottingham University, the National Composites Network and St Gobain Performance Plastics.

The Conference

The conference comprises an exciting programme of presentations focused on advanced manufacturing technology. The programme comprises three sessions with invited speakers; all experts in their fields; from companies and organisations making major contributions to the technical progression and commercial exploitation of composites. A visit to the Cranfield Composites Centre will conclude the day. The provisional programme is as follows:

- 9.45** Coffee
- 10.15** **Welcome:** Andrew Mills Cranfield University
Introduction: Andrew Long SAMPE UK Chairman
- 10.30** **Keynote Paper**
- **Considerations for Composites Design & Manufacture in Gas Turbines -**
John Marshall, Rob Backhouse & Mahipal Ganeshmal. Rolls-Royce
 - **Automated Preform Manufacture by Triaxial Braiding and Dry Tow placement**
Tjark von Reden - University of Stuttgart
- 11.40** Coffee
- 12.00**
- **The development of preforms for integrally stiffened structures**
Jon Goering – Albany Engineered Composites
 - **Bentley Technology_Gallops Ahead On Pur San**
Anthony Dodworth - Bentley Motors
- 13.00** **Lunch** - sponsored by **St Gobain Performance Plastics**
- 14.00**
- **RTM Production Facility for Secondary Aircraft Structures**
Mark Braniff - Bombardier Shorts
 - **The Impact of Automated NDE on Production Rates**
Pamela Faries - QinetiQ
 - **Automated Process Technologies for Future Low Cost Unmanned Aircraft Structures - FLA VIIR**
Andrew Mills - Cranfield Composites Centre
- 15.30** Close

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20th February 2008 - Mitchell Hall - Cranfield University

Registration Fees

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|-----------------------------------|---|
| Non SAMPE Members | £150 including free membership of SAMPE for 1 year |
| Non SAMPE Members | £120 |
| SAMPE members | £80 |
| Young Engineers (under 30) | £120 including free membership of SAMPE for 1 year |
| Students | £25 |

For further information contact

Andrew Mills (programme) or Sharon McGuire (registration)

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One day Conference
20th February 2008

Mitchell Hall
Cranfield University



Cranfield
UNIVERSITY

National Composites Network

St Gobain Performance Plastics