

SAMPE Europe

SETEC 09

SAMPE EUROPE Technical Conference and
“Table-Top” Exhibition



Mansion TORTWORTH COURT
Four Pillars Hotel
FILTON / Bristol, UK
September 17th – 18th 2009

High Performance Composites for a Changing World



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A350 XWB

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General Time -Table SETEC 09 – Programme at a Glance

WEDNESDAY, Sept. 16 th 2009	THURSDAY, Sept. 17 th 2009	FRIDAY, Sept. 18 th 2009
10.00 – 17.00 Table Top build up	09.00 – 15.00 Registration	08.00 – 16.00 Registration
17.00 – 19.00 Registration	09.00 – 15.20 Table Top Exhibition	Session 3 Sandwich Structures
18.00 – 19.30 Welcome reception	09.00 – 09.30 Welcome Coffee & Tea	<i>Chairman: Klaus Drechsler</i>
Table Top Exhibition Area	09.30 – 10.00 SETEC 09 Opening	Paper N° 7
	Key – Note 1 Iain Gray	Paper N° 12
	<i>Chairman: Luigi Torre</i>	Paper N° 24
	10.00 – 12.00 Session 1 Advances in Manufacturing Processes	Coffee & Tea
	<i>Chairman: Andrew Long</i>	Session 4 Novel Applications
	Paper N° 1	<i>Chairman: Bruno Beral</i>
	Paper N° 17	Paper N° 5
	Paper N° 31	Paper N° 13
	Paper N° 32	Paper N° 16
12.00 – 13.00 Lunch Exhibition Area	Lunch Exhibition Area	Paper N° 27
13.00 – 15.00 Session 2 Developments in Lightweight Materials	Session 2 Developments in Lightweight Materials	Lunch Exhibition Area
	<i>Chairman: David Phipps</i>	Key – Note 2 Bob John
	Paper N° 2	<i>Chairman: Leslie Cohen</i>
	Paper N° 3	Session 5
	Paper N° 15	Out of Autoclave Processing
	Paper N° 22	<i>Chairman: Roy McCarthy</i>
15.00 – 18.00 AIRBUS Filton visit	AIRBUS Filton visit	Paper N° 25
19.30 SETEC 09 Dinner	SETEC 09 Dinner	Paper N° 28
	Tortworth Court Hotel	Paper N° 29
		Paper N° 30
		Closure SETEC 09
		<i>Andrew Long, Chairman of the UK Organising Committee</i>
		16.30

SAMPE Europe SETEC 09

Technical Conference and Table-Top Exhibition

SAMPE Europe is very pleased to present to you the programme of SETEC 09, Technical Conference and Table Top Exhibition to be held at the Mansion TORTWORTH COURT Four Pillars Hotel, Wotton-under-Edge, South Gloucestershire (FILTON/Bristol).

The “Leitmotiv” of “**High Performance Composites for a Changing World**” will present the latest achievements of the Aerospace & Space Industry in Materials, Technologies, Design, Processes, Application and Testing. SETEC 09 will show in 5 sessions, 19 papers and two Key-Note addresses.

In parallel to SETEC 09 Conference, a Table Top Exhibition will be held, located adjacent to the Conference Auditorium with 29 Table Tops where leading Companies, Research Centres and Universities will be able to present to the highly qualified SETEC 09 attendees their latest developments, achievements and samples. During the Coffee & Tea-Breaks and Lunch, to be held in the Table Top Exhibition Area, an excellent communication platform will be available to hold extended talks.

SETEC 09 Conference will give all attendees the opportunity to visit AIRBUS FILTON Plant where the assembly line for A-400M Wings will be toured as well as the cutting edge Composite Structures Development Centre. (Please note that plant tour access depends on confirmed security clearance. Form to be filled in together with Conference registration application.)

SETEC 09 Conference and Table Top Exhibition will be held at TORTWORTH COURT Four Pillars Hotel, which is a magnificent Grade II listed Victorian Mansion House, built in 1849, having 190 en-suite Bedrooms and set in more than 12 hectares of tranquil Parkland with an Arboretum of over 300 rare and protected trees. The palatial public-rooms have been painstakingly and sympathetically restored and are complemented by modern comforts and state-of-the-art facilities. The Hotel is located close to junction 14 of the M5 Motorway and 24 miles to Bristol Airport.

SETEC 09 Conference Registration options will include a Full-Board-Package covering Hotel Accommodation, Breakfast, Lunch, Coffee & Tea Breaks and the SETEC 09 Conference Dinner at the TORTWORTH COURT Hotel. The Standard Registration can be booked for either one or two nights. If you want to extend your stay for the weekend to follow SETEC 09, special SETEC 09 rates are available for BB at € 120.00 per head/day.

PRELIMINARY PROGRAMME

Wednesday, September 16th 2009 Table Top Build-Up – Welcome Reception

- 10.00 – 17.00 TABLE TOP build up
- 17.00 – 19.00 SETEC 09 REGISTRATION
- 18.00 – 19.30 WELCOME RECEPTION
For Attendees and Table Top Exhibitors

Thursday, September 17th 2009

- 09.00 – 15.00 REGISTRATION
- 09.00 – 09.30 **Welcome Coffee & Tea**
- 09.00 – 15.20 Table Top Exhibition
- 09.30 – 10.00 **Plenary Conference Auditorium**
SETEC 09 Opening & Welcome Address
Chairman: Luigi Torre, President SAMPE Europe
- Key-Note Address I: The business of shaping the future High Performance Composite Industry**
Speaker: Iain Gray, Technology Strategy Board
- 10.00 – 12.00 **SESSION I – Advances in Manufacturing Processes**
Chairman: Andrew Long
- Paper 1)* **Machining of Composites with Abrasive Waterjets**
Speaker & Author: Ralf Moeller, Flow Corp. D-Bretten
- Paper 17)* **Carbon Fibre Materials, Design and Processing for Low Cost, Damage Resistant Wing Structures for UAVs**
Authors: A.R. Mills, J. Hurley, J.A. Jones
Speaker: Andrew R. Mills, Cranfield University, UK
- Paper 31)* **Novel One-Shot Manufacturing Concept for Composite Box Structures**
Author & Speaker: Tim Fell, EDISRB, Airbus, Filton
- Paper 32)* **Opportunities for Automation within the Manufacture of Future Commercial Aircraft Structures**
Speaker & Author: John Cornforth, GKN Aerospace, CRC, East Cowes, UK
- 12.00 – 13.00 **LUNCH at Table Top Exhibition Area**

- 13.00 – 15.00 **SESSION 2 – Developments in Lightweight Materials**
Chairman: David Phipps
- Paper 2)* **Next Generation Carbon Fibre**
Speaker & Author: Julian Lowe, Toho Tenax Europe , D-Wuppertal
- Paper 3)* **Simulation of Thermoplastic Forming Process**
Speaker & Author: Josef Krena, Latecoere, CZ-Praha
- Paper 15)* **Advanced Damage Tolerance of CFRP Laminates using in-Situ Polymerised Thermoplastics**
Authors: A. Ebert, D. Gittel, O. Geiger, K. Drechsler, F. Henning
Speaker: A. Ebert, Institute for Aircraft Design, University Stuttgart
- Paper 23)* **Experimental and numerical parameter study of foldcores made out of Resin Impregnated Aramid Fiber Paper**
Authors: S. Fischer, Marc Grzeschik, K. Drechsler
Speaker: S. Fischer, Institute for Aircraft Design, University Stuttgart
- 15.00 - 18.00 **Airbus Visit, including the A400M Wing Assembly Line**
- 19.30 – 23.00 **SETEC 09 CONFERENCE DINNER**
Mansion TORTWORTH COURT Four Pillars Hotel

Friday, September 18th 2009

- 08.00 – 16.00 REGISTRATION
- 08.30 – 16.00 Table Top Exhibition
- 09.00 – 10.30 **SESSION 3 – Sandwich Structures**
Chairman: Klaus Drechsler
- Paper 7)* **Approaches to Automating the Manufacture of Complex Sandwich Panels**
Speaker & Author: Kevin Potter, University of Bristol
- Paper 12)* **Design, Manufacture and Testing of a Regional Jet Composite Auxiliary Fuel Tank**
Authors: T. Bertenshow, G. Kenworthy, J. Lee, M. Royle, N. Savage
Speaker: James Lee, Cobham Composites Technology
- Paper 24)* **Potential of High Performance Foldcores made out of PEEK**
Authors: M. Grzeschik, K. Drechsler. Speaker: Marc Grzeschik, Institute for Aircraft Design, University Stuttgart

- 10.30 – 11.00 **Coffee & Tea at Table Top Area**
- 11.00 – 13.00 **SESSION 4 – Novel Applications**
Chairman: Bruno Beral
- Paper 5)* **Using Composites and Modelling Tools to achieve lighter AFVs**
Author & Speaker: Mark French, QinetiQ, Farnborough, UK
- Paper 13)* **The Technical and Political Problems of Manufacturing Structural Composites for the Automotive Industry**
Author & Speaker: Bevis Musk, Dymag Racing UK Ltd, Wiltshire
- Paper 16)* **Advanced Manufacture of Novel Hybrid Structures**
Author & Speaker: Jonathan Meyer, EADS AIRBUS Filton
- Paper 27)* **Composite Wing Spar Development for A350 XWB**
Author & Speaker: Paolo Lage, AIRBUS Filton
- 13.00 – 14.00 **LUNCH at Table Top Exhibition Area**
- 14.00 – 14.30 **Key-Note Address 2:**
A Perspective on the future of Non-Aerospace High Performance Composites
Chairman: Leslie Cohen
Author & Speaker: Bob John, TWI National Composites Network
- 14.30 – 16.30 **SESSION 5 – Out-of-Autoclave Processing**
Chairman: Roy McCarthy
- Paper 25)* **Automated Liquid Resin Moulding**
Speaker & Author: Henri Hiblot, ISOJET, Lyon, France
- Paper 28)* **No Pressure!**
Author & Speaker: Ebby Shahidi, Advanced Composites Group Heanor, Derby, UK
- Paper 29)* **Manufacturing Process Simulation TOOLS for faster Industrialisation of Composites Parts**
Authors: C. Weimer, F. Dumont
Speaker: Christian Weimer, Eurocopter, Donauwörth, Germany
- Paper 30)* **Stitching Technology for Preform Manufacturing – Current Status**
Authors: W. Buchs, U. Beier, G. Jaeger
Speaker: Wolfgang Buchs, Lechtechnik, Oberndorf, Germany
- 16.00 – 18.00 Dismantle Table Top Exhibition
- 16.30 – 16.40 **Closing SETEC 09**
Andrew Long, Chairman of the UK Conference Organising Committee

Table Top Renting & Registration Form SETEC 09 Registration Form – TORTWORTH COURT Hotel Reservation Plant Tour Registration

- SETEC 09 **Registration Package including Hotel Boarding**
(Registration Form separate)
The Standard SETEC 09 Registration has been defined for either one or two day stay and includes hotel accommodation at the TORTWORTH COURT Four Pillars Hotel, covering Breakfast, Coffee & Tea Breaks, Lunch and SETEC 09 Dinner. The registration can also be booked without the Hotel Boarding element. For accommodation before or after SETEC 09, Bed & Breakfast at TORTWORTH COURT is available at €120.00 per head/day.
- SETEC 09 **Table Top Exhibition (Registration Form separate)**
SAMPE Europe offers for renting 29 Table Top units, each consisting of one Table, size 1530 x 1220 mm – 5 x 4 feet, 2 chairs and one 230v electricity socket. The Table Top Exhibition Area is adjacent to the Conference Auditorium. For the layout of the Table Tops, please refer to the Layout plan published on the reverse side of the registration form. Renting Fee per Table Top is € 800.00 and includes one free registration for SETEC 09 Conference, **without** the Hotel Boarding element. Cost for the Hotel Boarding element, B&B, is €120.00 per head/day.
- SETEC 09 **Plant Visit Tour: AIRBUS FILTON (Registration Form separate)**
SETEC 09 attendees are invited to visit the AIRBUS FILTON Plant where the wings for the AIRBUS A400M Aircraft are being assembled.
- SETEC 09 **SETEC 09 Location & Sponsor Aspects**
How to reach Tortworth Court, Wotton-under-Edge, Gloucestershire, GL12 8HH
The closest International Airport is Bristol Airport, located approx. 24 miles (38km) from the SETEC 09 Hotel. A special Shuttle Taxi Service will be recommended when you receive confirmation of your conference registration. When flying to London Heathrow you can either take the train from London to Bristol Parkway Station – or hire a car to drive on M 4 in the direction Bristol/Cardiff to junction 20 – change to M 5 (direction Gloucester/Birmingham) to nearby junction J 14. The distance from Heathrow to the Hotel by road is approx 72 miles (120 km).

SETEC 09

Sponsor of SETEC 09 Conference & Table Top Exhibition.

SAMPE Europe and SAMPE UK & Ireland Chapter are very pleased to have gained the support and sponsorship of the five leading companies named below. The organisers would welcome any complementary sponsors and their logo can be added to the Final Programme and Proceedings.

SAMPE Europe greatly appreciates the honourable sponsorship from the following Organisations and Companies:



Thank you for supporting SETEC 09 at TORTWORTH COURT



Tortworth Court,
Wotton-under-Edge,
Gloucestershire, GL12 8HH
Tel: 01454 263000
Fax 01454 263001
Email:

tortworth@four-pillars.co.uk

Directions

From the North: Leave the M5 at Junction 14. Follow the B4509 towards Wotton. On the B4509, go up the hill and take the first right into Tortworth Road. After half a mile, the hotel is on the right hand side up a long drive. The hotel is signposted once you join the B4509.

From the South: Leave M5 at junction 14, signposted to Dursley. At the T-junction turn right onto the B4509 and follow directions above. It is recommended that you drive to reception to check in. You will then be directed to the nearest and most convenient car park to your accommodation.

Rail and Air Links

- Bristol Airport..... 24 miles
- Birmingham International Airport.....83 miles
- Bristol Temple Meads.....17 miles
- Bristol Parkway11 miles

