

SAMPE Europe

1st Symposium on Automation
in Composite Technology

Munich 2010

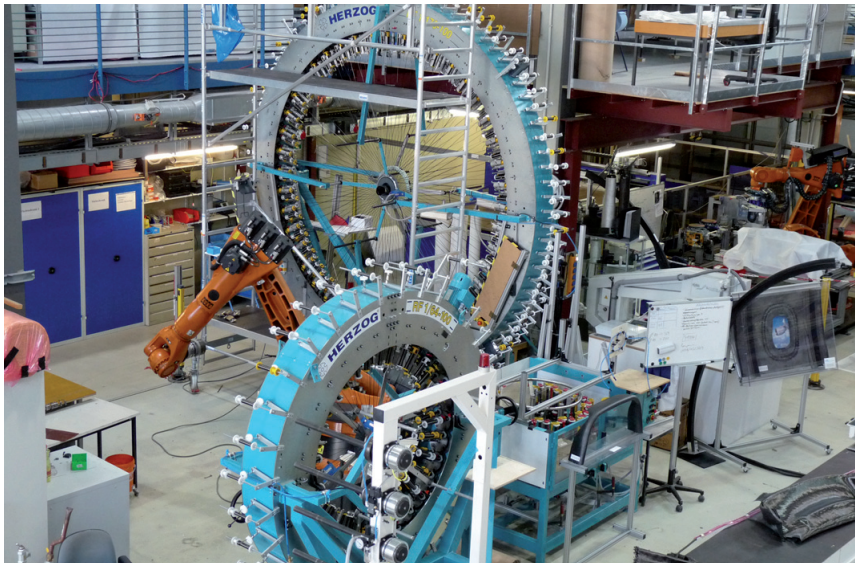


Neue Messe München

AUTOMATICA

4th International Trade Fair for
Automation and Mechatronics

09. June - 10. June, 2010



Textile Preforming Center
Institute of Aircraft Design, Stuttgart

Website www.sampe-europe.org
E-Mail sebo@sampe-europe.org

SAMPE EUROPE SEMAT 2010 SYMPOSIUM ON AUTOMATION

SAMPE (Society for the Advancement of Material and Process Engineering) invites you to the first International SAMPE Symposium on „Automation in Composite Technologies“. The symposium will be held in parallel with the AUTOMATICA Trade Fair (7th - 10th of June, 2010), this being one of the biggest events in the field of automation and mechatronics world wide attracting more than 32.000 visitors every second year (www.automatica-munich.com).

Composite technologies will also be addressed by an international „Composites City by JEC“ organized by JEC and an exhibition of the local Carbon Composite e.V.

Automation is one of the most important enablers for the more intensive and successful use of composites in all application fields, especially for automotive industry with its large volumes and cost pressures. Also in aerospace and wind energy advanced material technologies, fast infusion and curing, fibre placement, textile preforming, assembly and simulation along the whole process chain have to be considered in order to compete with existing metal components.

Program overview:

- I. Keynote by Mark Stuart (NASA Langley)
- II. Needs from different markets (Aerospace, Automotive, Windenergy, ...)
- III. Technologies for Automation
- IV. Materials, Processes and Simulation
- V. Applications and Lessons Learned

In the evening of the first day the attendees will be invited by the Free State of Bavaria to a reception in the historic Residence in the center of Munich hosted by the Ministry of Economy.

Location: New Munich Trade Fair Centre,
20 minutes from Munich Airport and 20 minutes from Munich Main Station

Fees: 600 € for SAMPE members - 660 € for non-members

Including: Proceedings (CD-Rom)
Lunches, Coffee Breaks
Evening reception in the historic Residence
Entrance to Automatica Exhibition

Dates: 9th and 10th of June, 2010

Information: Please send an E-Mail to: sebo@sampe-europe.org
drechsler@lcc.mw.tum.de

SAMPE EUROPE SEMAT 2010 SYMPOSIUM ON AUTOMATION

Wednesday, June 9th 2010

08.00 Registration, Welcome Coffee & Tea

09.15 Opening

B. Beral (SAMPE Europe President)
M. Erath (SAMPE Europe Secretary)
K. Drechsler (SEMAT Organizing Committee)

09.30 - 12.00 Session I - Needs and technologies from different markets

Chairman: K. Drechsler, LCC, Technische Universität München

09.30 „Advanced composite structures and materials technologies for launch vehicles“

M. Shuart, NASA Langley Research Center

10.00 „Aspects of modern preforming technologies - illustrated by automated braiding processes“

F. J. Kumpers, K. J. Brockmanns, SGL Kumpers GmbH & Co KG;
H. Pfitzer, BMW AG

10.30 „Challenges in the use of carbon fiber composites in industrial applications“

M. Lang, Voith Materials GmbH & Co KG

11.00 „Lean manufacturing - the digital thread“

L. Cohen, HITCO Carbon Composites, Inc.

11.30 „Systems enabling human and machine integration in composite production“

P. Crothers, Boeing Research and Technology Australia;
K. Stark, Pilz Safe Automation

12.00 Lunch

Wednesday, June 9th 2010

- 13.00 - 15.00 Session 2 - Textile preforming technologies**
Chairman: Ch. Weimer, Eurocopter
- 13.00 **„Automated preforming via fiber patch placement“**
M. Beaumont, EADS Innovation Works, Ottobrunn
- 13.30 **„Automation technologies for the fabrication of dry preforms“**
R. Keilmann, G. Jäger, KSL Sondermaschinenbau GmbH
- 14.00 **„New carbon fiber - materials for automated processes“**
M. Schneider, B. Wohlmann, R. Wockatz, M. Pleger, Toho Tenax Europe
- 14.30 **„MPT: Automated near net shape preform manufacturing for cost efficient composite parts“**
I. Karb, Compositence GmbH; D. Hüsler, BIONTEC AG
- 15.00 Coffee break**
- 15.30 - 17.30 Session 3 - Applications and lessons learned**
Chairman: M. Beaumont, EADS Innovation Works
- 15.30 **„Airbus composite innovation - current and future perspectives“**
B. Beral, Airbus
- 16.00 **„Dry fibre placement technology - advancing the preform process chain for aerospace applications“**
C. Weimer, Eurocopter Deutschland GmbH
- 16.30 **„Experiences as a material supplier of working with ATLs and AFPs“**
M. Roman, Cytec Engineered Materials
- 17.00 **„ATK f(x) = Integrated automation“**
M. Blair, V. Benson, ATK
- 18.00 Bus Transfer to Munich Residence**
- 19.00 Evening Reception**

Thursday, June 10th 2010

08.30 Registration, Welcome Coffee & Tea

09.00 - 10.30 Session 4 - Technologies for automation

Chairman: M. Erath, SAMPE Europe

09.00 „Automation technologies for an efficient manufacturing of fibre reinforced plastics“

G. Reinhart, Chair of Industrial Management and Assembly Technologies
IWB, Technische Universität München

09.30 „The BWM flexible composite manufacturing technology - from the handling of limp materials up to surface processing on basis of a continuous technology approach“

C. Dörsch, Bremer Werk für Montagesysteme GmbH

10.00 „Automated NDT processes in aerospace“

O. Kellenberger, KUKA Robots GmbH

10.30 Coffee break

11.00 - 12.30 Session 5 - Thermoplastic technologies

Chairman: F. Henning, ICT, Pfinztal

11.00 „Advancements in automatic manufacturing of fiber reinforced thermoplastic composites“

P. Mitschang, Institut für Verbundwerkstoffe GmbH

11.30 „Laser - assisted placement of carbon fiber - reinforced thermoplastics“

M. Steyer, Fraunhofer - Institut für Produktionstechnologie, IPT

12.00 „Continuous fibre placement for thermoplastic composite products“

M. Kremers, M. Verkade, Airborne International B. V.

12.30 Lunch

Thursday, June 10th 2010

- 13.30 - 15.00 Session 6 - Fiber placement technologies**
Chairman: G. Berchtold, Premium Aerotec GmbH, Augsburg
- 13.30 **„Automization in rotor blade fabrication - continuous processes for economic and quality assured manufacture“**
S. Schmalzried, MAG Tech Center
- 14.00 **„Processing different materials with the same fibre placement robot“**
C. Gallet, Coriolis Composites S.A.S.
- 14.30 **„Meeting the productivity challenge in fiber placement“**
M. Muser, Ingersoll Machine Tools, Inc.
- 15.00 Coffee break**
- 15.30 - 17.00 Session 7 - Automation process chain**
Chairman: C. Lanaud, General Electric Global Research Center
- 15.30 **„In - line quality inspection for composite material“**
G. Kronreif, Profactor GmbH
- 16.00 **„Automated draping process for textile preforms with integrated ultrasonic binder activation“**
A. Erber, F. Härtel, Institute of Aircraft Design, University of Stuttgart;
C. Clairmont, Dassault Aviation
- 16.30 **„Automated handling of dry carbon and prepreg materials for the serial production for aeronautical and automotive applications“**
H. Apmann, M. Herkt, Premium Aerotec GmbH, Varel
- 17.00 Closing Remarks**

SAMPE EUROPE SEMAT 2010 SYMPOSIUM ON AUTOMATION

SAMPE Europe's launch of the SEMAT 2010 International Symposium is based upon a forward oriented Partnership relation and appreciated sponsoring from the following organisations and institutions.

Sponsors and Partners:

Carbon Composite e.V. Freistaat Bayern

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SAMPE Europe would be pleased to integrate your company or institution as a complementary sponsor of SEMAT 2010 - by integrating your logo on the SEMAT 2010 Proceedings.

Please get in contact for this purpose by e-mail to: sebo@sampe-europe.org

For further information we invite you to visit SAMPE Europe's home-page under:
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SAMPE Europe is looking forward to meeting you at SEMAT 2010 Neue Messe München

SAMPE EUROPE SEMAT 2010 SYMPOSIUM ON AUTOMATION

SEMAT 2010 - NEUE MESSE MÜNCHEN, 09. - 10. 06. 2010 REGISTRATION FORM **SEMAT** 2010 SYMPOSIUM

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I am a SAMPE member	yes	no
2 days access, incl. lunch on June 9 th und 10 th . SEMAT Dinner and CD Rom Proceedings	Members 600 €	Non-Members 660 €

All Price indications in € including 19% MWSt / VAT. **Payments to be made in EURO only**
Please note that your registration will become **effective only upon your payment**.
Payment in full must be made before the event.

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Cancellation must be in writing and must be send to SEBO, SAMPE Europe Business Office, P.O. Box 128, CH-4125 Riehen or being faxed to +41 61 601 81 28 **before May 15th 2010**, to be refunded with 75%. Cancellation requests received after that date cannot be honoured. All registrations are subject to the cancellation policy. Registrants, who fail to attend and have not cancelled as noted, are liable for the entire fee. Refunds are processed after the SEMAT 10 Conference only.