

SAMPE Europe

SETEC 03/-08



**SAMPE EUROPE Technical Conference
and "Table-Top" Exhibition**

**IHK Industrie & Handelskammer Schwaben
D-86150 Augsburg
Stettenstrasse N° 1-3**

September 18th-19th 2008

**CFRP: The Cost Down Solution
for Top Performance**



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General Time-Table & The SETEC 03/-08 Programme at a Glance

Wednesday, Sept. 17th. 2008

Thursday, Sept. 18th. 2008

Friday, Sept. 19th. 2008

10.00-18.00 h	Table Top Exhibition Building up of Table Tops	08.30-16.00 h 09.00-16.00 h	Registration Table Top Exhibition	08.30-16.00 h 08.30-17.00 h	Registration Table Top Exhibition
		10.00-10.30 h	SETEC 03 Opening Key-Note 1 Chairman L. Torre	09.00-11.00 h	SESSION 3 Chairman Key-Note 3
		10.30-11.00 h	COFFEE BREAK		Advanced Applications M. Erath Paper No 02 Paper No 21 Paper No 07 Paper No 13
		11.00-12.30 h	SESSION 1 Chairman Sustainable Advantages B. Beral Paper No 12 Paper No 15 Paper No 09	11.00-11.30 h	COFFEE BREAK
		12.30-13.30 h	LUNCH	11.30-13.00 h	SESSION 4 Chairman Engineering with CFRP W. Cantwell Paper No 10 Paper No 11 Paper No 23
		13.45-15.30 h	SESSION 2 Chairman Key-Note 2 CFRP in Application H. Jäger Paper No 05 Paper No 04 Paper No 18 Paper No 19	13.00-14.00 h	LUNCH
		15.30-16.00 h	COFFEE BREAK		
		16.00-19.00 h	PLANT VISIT TOURS at Eurocopter Donauwörth EADS Aerospace Augsburg SGL Carbon Group, Melding MT Aerospace Augsburg KUKA Robotic Augsburg	14.00-16.00 h	SESSION 5 Chairman Key-Note 4 Future Success upon CFRP K. Drechsler Paper No 08 Paper No 17 Paper No 24 Paper No 16
17.00-19.00 h	Registration	16.00-19.00 h	COFFEE BREAK	16.00-16.30 h	COFFEE BREAK
		17.00-19.00 h	Welcome Apertiff at Industrie- & Handelskammer Schwaben, IHK	16.30-18.00 h	SESSION 6 Chairman New Aspects A. Kwakernaak Paper No 03 Paper No 22 Paper No 20
		19.00-19.20 h	APERITIF AT THE «RATHAUS»	17.00-19.00 h	Dismantle Table Top Expo
		19.30-20.00 h	AUGSBURGER PUPPENKISTE Special performance SETEC 08 at the Rathaus		
		20.00-23.00 h	Reception by The Mayor & City of Augsburg Goldener Saal of the Rathaus		
			SETEC 08 Dinner		



SAMPE Europe SETEC 03/-08 AUGSBURG Technical Conference and Table-Top Exhibition

Dear Attendees, Guests & SAMPE Members

SAMPE Europe welcomes you to attend SETEC 08 Technical Conference and Exhibition to be held at the IHK, Industrie & Handelskammer Schwaben, Augsburg.

This year's "Leitmotiv" will be : *CFRP "The Cost Down solution for Top Performance"* focusing on the extended possibilities of Carbon Fibres in combination with state-of-the-art Matrix-Systems can achieve for Top Performance Engineering Structures at Cost Down Solutions.



The setting up and realisation of SETEC 08 was handled as joint project of SAMPE Europe with the local partner CARBON COMPOSITES e.V. Augsburg, and some of its member companies such as EADS Aerospace Augsburg, EUROCOPTER Donauwörth, MT-AEROSPACE Augsburg, SGL Carbon Meitingen and KUKA Roboter Augsburg. In addition, the City of Augsburg, headed by its Major Dr. Kurt Gribl and IHK, Industrie & Handels Kammer Schwaben, Augsburg, headed by Ms. Hanelore Leimer provided to the project a very substantial support by their very generous gestures. The City of Augsburg invites all attendees to the Rathaus for Reception and Dinner, and in addition to enjoy a special performance of the world known "Augsburger Puppenkiste". The IHK offered SETEC 08 the possibility and the means to held SETEC 08 in their outstanding Conference Centre of the Headquarter of the Industrie- & Handelskammer Schwaben, here in Augsburg.

The situation of visiting one of five different plants and manufacturing centres of advanced CFRP components is an outstanding and unique situation that SAMPE Europe can propose to SETEC 08 attendees and guests. Furthermore it shows the strong implementation of the Industry in Schwaben related to advantages of Advanced Composite Technology. .

For those generousities SAMPE Europe expresses its most sincere gratitude for this unexpected, and up to now never reach level of support, which will allow that SETEC 08 will burn a new level of quality for its Technical Conference SETEC on its records. Thank you for the great support.

SAMPE Europe presents a warm welcome to the 24* Table Top Exhibitor which will show and inform an their stands about the latest achievements realized to the needs of the Community of Advanced Composite Technology Industry.

SAMPE Europe wishes you a very successful and rewarding participation to SETEC 08 Augsburg!

Thank you for your decision to attend SETEC 08.

Dr. Luigi Torre
President SAMPE Europe

PS: SETEC 09 will be held on Sept. 17th-18th.2009 in Filton / Bristol, UK. Get those dates reserved!

* : status : 01.09.08

PRELIMINARY PROGRAMME

Wednesday, Sept. 17th. 2008

- 10.00 – 18.00h Table Top building up
17.00 – 19.00h SETEC 03/-08 Registration
18.00 – 19.00h Welcome Reception at Registration Area

Thursday, Sept. 18th. 2008

- 08.30 – 16.00h SETEC 03/-08 Registration
09.00 – 16.00h Table Top Exhibition

- 10.00 – 10.30h **Plenary Conference Auditorium**
SETEC 03/-08 Opening & Welcome address
Chairman: L. Torre, President SAMPE Europe

KEY-NOTE Address 1 : (Paper N° 06)
Industrialisation of the Carbon Composite Industry
Jan Verdenhalven, SGL Carbon Group, D-Wiesbaden

- 10.30 – 11.00h **Coffee Break at the Table Top Exhibition Area**

- 11.00 – 12.30h **Session 1 – SUSTAINABLE ADVANTAGES**
Chairman: B. Beral

- Paper 12 **Building the Baracuda, Low Cost Solutions for High-Tech Application**
Authors: T. Gottmann, M. Stamm, M. Muser, EADS Defence & Security Military Air Systems, München & Augsburg
Speaker: Michael Muser, EADS Defence & Security Military Air Systems, D-86153 Augsburg

- Paper 15 **From the Idea to the Series Production, Autoclave-Free Manufacturing Process of Prepreg CFRP-Struts for Aircraft**
Authors: F.Eidmann, C.Rennecke, A.Patzelt, J.Kentner, MT-AEROSPACE, D-86153 Augsburg
Speaker: Florian Eidmann, MT-AEROSPACE, D-86153 Augsburg

- Paper 09 **New Composite Load Introduction Rib for High Lift Devices**
Authors: T. Haver, P. Middendorf, EADS Innovation Works, Dept. TCC3, D-81663 München
G. Spenninger, EADS Military Air Systems, Dept. MEG 12, D-85077 Manching
M.Göttlinger, Ch. Weimer, Eurocopter Deutschland, Dept. EDIPLI, D-81663 München
H. Schmidt, Kaiserslautern University, Institut für Verbundwerkstoffe, D-67663
Speaker: Thomas Havar, EADS Innovation Works, Dept. TCC3, D-81663 München

- 12.30 – 13.30h **LUNCH at the Table Top Exhibition Area**

- 13.45 – 15.30h **Session 2 – CFRP IN APPLICATION**
Chairman: H. Jäger

- Paper 05 KEY-NOTE Address 2
Tier 1, Worldwide Aerostructure Supplier
Author & Speaker: Hans Lonsinger, EADS Augsburg, D-Augsburg

- Paper 04 **High Performance CFW Flap Actuator Driveshaft A-380**
 Authors: Herbert Ehrlinspiel, W. Gebauer, O. Krause
 Speaker: Herbert Ehrlinspiel, LIEBHERR Aeospace Lindenberg GmbH., Lindenberg
- Paper 18 **Material, Process and Technology Development for Future Helicopter Application**
 Authors: C. Weimer, M. Bebesel, G. Kuntze-Fechner, D. Müller, H. Schwarze, Eurocopter Deutschland GmbH., D-81663 München
 Speaker: Marius Bebesel, Eurocopter Deutschland GmbH., D-81663 München
- Paper 19 **The Blast Resistance of a Carbon Fibre Reinforced Plastic for Aerospace Applications**
 Authors: Y. Yahya, W.J. Cantwell
 Speaker: W.J. Cantwell, University of Liverpool, UK

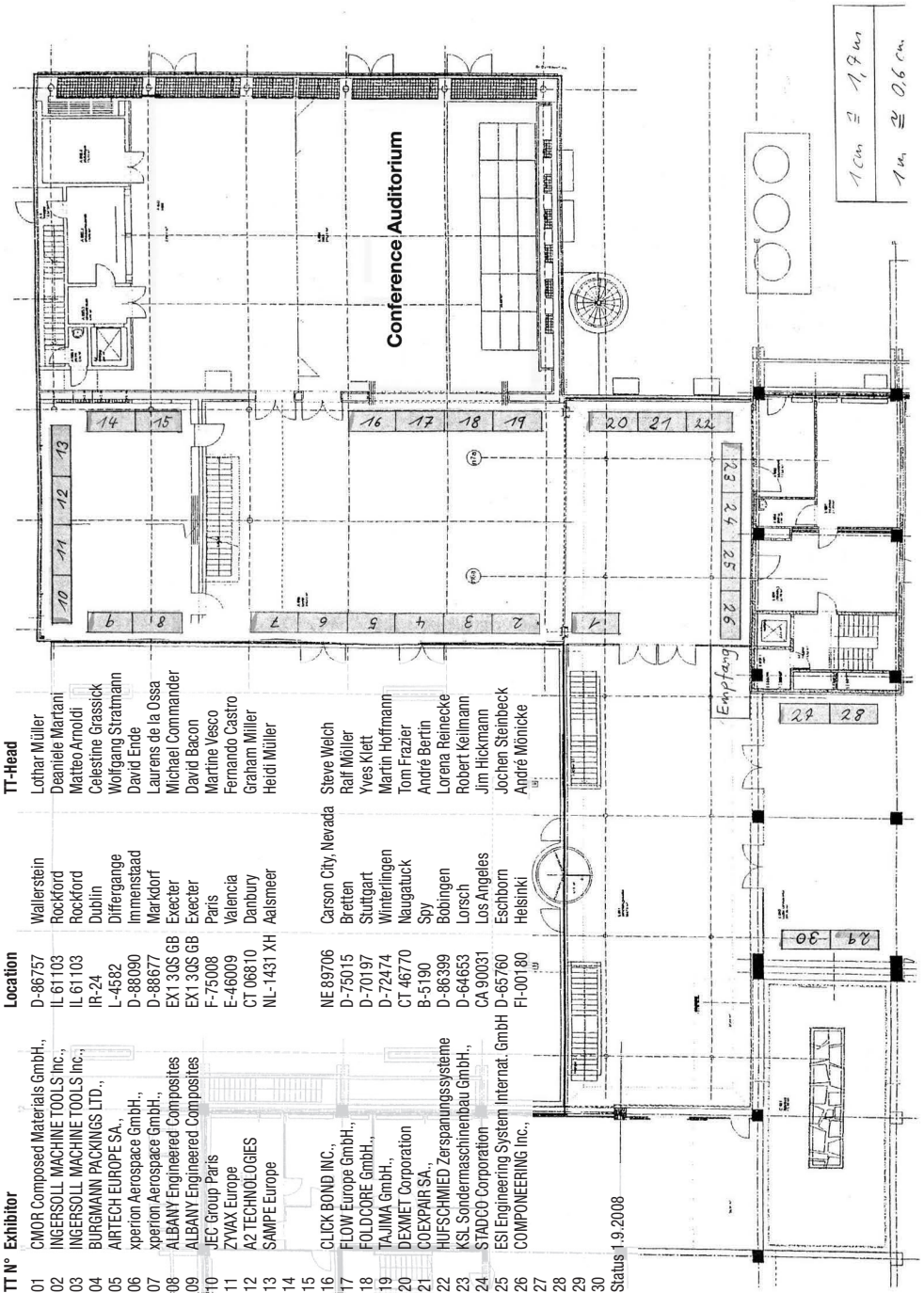
- 15.30 – 16.00h **COFFEE BREAK at Table Top Exhibition Area**
 16.00 – 16.10h **Boarding Busses for Plant Visit Tours as per applied Registrations:**
 16.10 – 19.00h **Plant Visit Tours at :**
KUKA Robotic, Augsburg
Eurocopter Donauwörth
EADS Augsburg
SGL Carbon Group, Meitingen
MT Aerospace Augsburg
 19.00 – 19.20h **Get-together Aperitif at the Rathaus of Augsburg**
 19.30 – 20.00h **Augsburger Puppenkiste Theater : Special SETEC 08 Performance**
 20.00 – 23.00h **Rathaus Augsburg – Goldener Saal**
SETEC 08 CONFERENCE DINNER
Invitation of The Mayor and the City of Augsburg

Friday, Sept. 18th. 2008

- 08.30 – 16.00h SETEC 03/-08 Registration
 08.30 - 17.00h Table Top Exhibition
- 09.00 – 11.00h **Session 3 – Advanced applications**
 Chairman: M. Erath
 KEY-NOTE Address 3
- Paper 02 **B-787 Dreamliner: Developing & Proving Advanced Composite Application**
 Author & Speaker: Alan G. Miller, The Boeing Company, Seattle, WA
- Paper 21 **Process Development of a Composite One-Piece Frame / Shear Tie**
 Authors: H. Bartosch, W. Buchs, U. Girard, M. Rehmet, T. Roser, H. Spanner, S. Ward, Ch. Weimer, EUROCOPTER Deutschland GmbH., D-86609 Donauwörth
 Speaker: Hans Bartosch, EUROCOPTER Deutschland, D-86609 Donauwörth
- Paper 07 **High Temperatur Application for Aircraft Systems**
 Authors: B. Fiedler, T. Haberle, F. Schöppe, K.F. Reiling, RUAG AG, CH-6032 Emmen
 Speaker: Bodo Fiedler, RUAG AG., CH-6032 Emmen
- Paper 13 **Impact Tolerance: A Challenge for Liquid Resin Infusion and Materials**
 Author & Speaker: Anatole Gilliot, DLR, D-Braunschweig
- 11.00 – 11.30h **COFFEE BREAK at Table Top Area**
- 11.30 – 13.00h **Session 4 – Engineering with CFRP**
 Chairman: W.J. Cantell
- Paper 10 **Innovative Stiffening Concepts for Thermoplastic Beams and Panels**
 Author & Speaker: Bert Thuis, NLR, NL-Marknesse

- Paper 11 **Non-Autoclave Infusion Technology Concepts for High Quality CFRP-Sandwich Panels**
 Authors: P. Zahlen, Composite Technology Center GmbH., D-21684 Stade
 C. Metzner, EADS Innovation Works, D-81663 München
 Speaker: Pierre Zahlen, Composite Technology Center GmbH., D- 21684 Stade
- Paper 23 **Development of an Innovative Configuration of a Composite Window Frame, made with an Innovative RFI Process on a closed Mould**
 Authors: F. Beneventi, S. Frangale, G. Iagulli, F. NManzi, M. Raffone, M. Riccio, E. Rinali, Alegria Aeronautica, Pomigliano D'Arco (Napoli)
 Speaker: Marco Raffone, Riccio Massimo, Alegria Aeronautica, Pomigliano D'Arco (Napoli)
- 13.00 – 14.00h **LUNCH at the Table Top Exhibition Area**
- 14.00 – 16.00h **Session 5 – Future success upon CFRP**
 Chairman: K. Drechsler
- Paper 08 KEY-NOTE Address 4
A-350 KWB Structures: A major Step forward for Composite Application
 Author & Speaker: Bruno Beral, AIRBUS, F-Toulouse
- Paper 17 **New Cost Effective Manufacturing Technologies for future CFRP Passenger and Cargo Doors**
 Authors: H. Bartosch, W. Buchs, U. Girard, M. Rehmet, T. Roser, H. Spanner, S. Ward, Ch. Weimer, EUROCOPTER Deutschland GmbH., D-86609 Donauwörth
 Speaker: Hans Bartosch, EUROCOPTER Deutschland, D-86609 Donauwörth
- Paper 24 **Choosing Technological Solutions for High Loaded Joints in Structures Containing Polymeric Composites**
 Authors: G.A. Kryvov, V.A. Matviyenko, V.A.Reznikov, K.O. Zvorykin, V.N. Shulepov
 Speaker: Victor Shulepov, Ukrainian Institute of Aviation Technology, Kiev, Ukraina
- Paper 16 **Detailed Burst Failure Analysis on a Thick-Walled Composite Overwrapped Pressure Vessel**
 Authors: G.K. Schullerer, J.M. Scharringhausen, MT-AEROSPACE AG., D-86153 Augsburg
 A.E. Scherer, University of Stuttgart, Institute of Polymer Science, D-70199 Stuttgart
 H.A. Lehar, University of Innsbruck, Institute of Structural Mechanics & Strengths, A-6020 Innsbruck
 Speaker: Günther Schullerer, MT-Aerospace AG., D-86153 Augsburg
- 16.00 – 16.30h **Coffee Break at the Table Top Exhibition Area**
- 16.30 – 18.00h **Session 6 – New Aspects**
 Chairman: A. Kwakernaak
- Paper 03 **The Creation of Ductile, Composite Prepregs, with close to UD Properties**
 Authors: R. Ford, B. Griffith, Integrated Materials Technology LTD., Bury St. Edmunds, UK
 Speaker: Roger Ford, Integrated Materials Technology LTD., Suffolk, IP30 9TU, UK
- Paper 22 **Recent Advancements in Materials for Liquid Infusion Process**
 Authors: R. Blackburn, M. Doyle, C.Lo Faro, R. Maskell
 Speaker: Rob Blackburn, Cytec Engineered Materials, Wrexham, UK
- Paper 20 **Added Design Opportunities and Cost Efficient Production using Tailored Fibre Placement and Thermoplastic Matrix System demonstrated on a Bicycle Saddle**
 Authors: S.Segato, I.Karb, Uwe Köber, S. Carosella, K. Drechsler
 Speaker: I. Karb, Stuttgart University, IFB-Institute.
- 18.00h **Closure of SETEC 03/-08**

SETEC 03/-08 Augsburg TABLE TOP EXHIBITION



TT-Head

TT N°	Exhibitor	Location	TT-Head
01	CMOR Composed Materials GmbH,	D-86757	Lothar Müller
02	INGERSOLL MACHINE TOOLS Inc.,	IL 61103	Deannele Martani
03	INGERSOLL MACHINE TOOLS Inc.,	IL 61103	Matteo Arnoldi
04	BURGMANN PACKINGS LTD.,	IR-24	Ceasime Grassick
05	ARITECH EUROPE SA,	L-4582	Wolfgang Strahmann
06	xperion Aerospace GmbH,	D-88090	David Ende
07	xperion Aerospace GmbH,	D-88677	Laurens de la Ossa
08	ALBANY Engineered Composites	EX1 30S GB	Michael Commander
09	JEC Group Paris	EX1 30S GB	David Bacon
10	ZYMAX Europe	F-75008	Martine Vesco
11	A2 TECHNOLOGIES	E-46009	Fernando Castro
12	SAMPE Europe	CT 06810	Graham Miller
13		NL-1431 XH	Heidi Müller
14			
15			

16	CLICK BOND INC.,	NE 89706	Steve Welch
17	FLOW Europe GmbH.,	D-75015	Ralf Möller
18	FOLD CORE GmbH.,	D-70197	Yves Klett
19	TAJIMA GmbH.,	D-72474	Martin Hoffmann
20	DEXMET Corporation	CT 46770	Tom Frazier
21	COEXPAIR SA.,	B-5190	André Bertin
22	HUFESCHMIED Zerspanungssysteme	D-86399	Lorena Reinecke
23	KSL Sondermaschinenbau GmbH.,	D-64653	Robert Keilmann
24	STADCO Corporation	CA 90031	Jim Hickmann
25	ESI Engineering System Internat. GmbH	D-65760	Jochen Steinbeck
26	COMPONEERING Inc.,	FI-00180	André Mönicke
27			
28			
29			
30			

Status 1.9.2008

Sponsorship of SETEC 03/-08 Augsburg

SAMPE Europe is very proud about the excellent and outstanding support and collaboration provided by 10 Sponsors shown by their Logo – which contribute by their strong engagement for the preparation and realisation of SETEC 08 in Augsburg.

SAMPE Europe's gratitude is going to:

Stadt Augsburg

To host the reception at the Rathaus in the "Goldener Saal" consisting of The Special Performance of the "Augsburg Puppenkiste Theater" – and the SETEC 08 Dinner

Industrie & Handelskammer Schwaben, IHK Augsburg

To host the SETEC 08 Conference and the associated Table Top Exhibition in the very attractive house of IHK.

Carbon Composite Association e.V. Augsburg

As the local co-organisator with its member companies to set up the unique possibility to provide access to 5 Plant Visit Tours on Thursday Afternoon, September 18th. 2008

HITCO CARBON COMPOSITES, Inc. Gardena, CA

For financial sponsoring

XPERION GmbH., D-32052 Herford

For the very appreciated support to provide work-force to cover defined tasks.

MT AEROSPACE Augsburg

Eurocopter Donauwörth

EADS Defence & Security Augsburg

SGL GROUP, The Carbon Company, Meitingen

KUKA Robotic, Augsburg

To provide access to their Manufacturing Plants for SETEC 08 attendees and for financial sponsor support.

