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The Expert Forum for
Composite Lightweight Construction

4th International

CFK-Valley Stade Convention

15-16 June 2010, Stadeum Stade

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for Air, Land & Sea



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Greetings

The innovative ability of businesses and research institutes is decisive in order to remain competitive on an international level. A strong industry and excellent science are the basis for economic growth and for securing jobs.

A unique competence in the field of lightweight construction has been developing in the location of Stade over the past 20 years. CFK-Valley e.V. pools together the complementary competences of its approx. 90 members in a targeted process and, with this, successfully supports innovation processes.

The CFK-Convention's motto this year – "XXL Composites for Air, Sea and Land" – focuses on the field of mobility, also an important field for Niedersachsen. Niedersachsen is the state of mobility in the heart of Europe. The automobile industry is the backbone of Niedersachsen's economy. The aerospace industry, with over 30,000 highly-qualified employees, also has a vital position. And with the North German ports, particularly the future Jade-Weser-Port deep water harbor - the only one of its kind in Germany, the doors to the world will be opened from Niedersachsen. With the coming together of economically powerful businesses and top experts, the CFK-Convention provides an important impetus for progress in different areas of mobility. The application of CFRP, for example, can reduce

weight and therefore save energy during the operation of aircraft, automobiles and ships. This way we are taking a step toward the environmentally-friendly mobility of tomorrow.

In order for CFRP and CFRP technology to become established in air, sea and land branches of industry, production costs must be cut and technology obstacles overcome. With over 100 highly qualified engineers who will be working at the new CFK-Nord research center, expertise in the automated manufacture of large CFRP components will be united and consolidated. The state of Niedersachsen is supporting this infrastructure project with almost 20 M€ and is strengthening the location of Stade. With this we are securing highly-qualified jobs and are enabling growth in new markets.

I wish all participants a successful run of the convention, interesting new contacts and a pleasant stay in Stade.

Jörg Bode, Minister for Economics,
Labour and Transport of Niedersachsen



Greetings

The focus of this year's CFK-Valley Stade Convention with the motto of "XXL Composites for Air, Sea and Land" is on production technology for large and thick-walled structures and the particular challenges they pose.

The new CFK-Nord research center and its unique features will be presented in the keynote lectures. This new center will be a designated place of research for large structures. We are pleased to be able to open the research center on 21 September 2010.

The lectures will be geared toward the problems that large structures present. These are, for example, shape distortion due to thermal effects but also shrinkage of the matrix system in the production process, increase in productivity during the laying down of composite materials, tolerance measurements on large and flexible structures in the assembly process as well as the processing of large CFRP structures.

The lectures are arranged according to their branches of industry, which include the aircraft, automobile, wind turbine rotor blade manufacture, ship building and architecture industries.

In addition to the lectures, you may expect an informative exhibition with over 40 companies and research institutes presenting their latest developments and innovations. I wish all participants interesting contacts and exchanges that will lead to new technological solutions and economic success.

Prof. Dr.-Ing. Axel Herrmann
Chairman Steering Board CFK-Valley Stade e.V.

Composite Innovations Award

The "Composite Innovations Award" for developments with a particularly high degree of innovation in CFRP lightweight construction will be bestowed for the fourth time at the CFK-Valley Stade Convention.

The "Composite Innovations Award" is endowed with a Master's grant for the new "Composite Materials/Composites" Master's course of studies valued at 18,000 Euro. The award is endowed by the Ministry of Economics, Labour and Transport of the State of Niedersachsen, CFK-Valley Stade e.V. and by the Private University of Applied Sciences Göttingen (PFH Göttingen).

All firms and institutes participating at the CFK-Valley Stade Convention are eligible to apply for this grant. Research and engineering performances that make particularly innovative contributions to the development of materials and processes for marketable carbon-fiber reinforced composite structures are included in the evaluation process.

The laureate will be determined by CFK-Valley Stade e.V. steering board and a representative of the government of Niedersachsen. The deadline for entries is 28 May 2010.



Further information and application forms can be found on the Internet at www.cfk-valley.com/award



Niedersächsisches Ministerium für
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Program 15 June 2010

10:00

Greetings from the CFK-Valley Stade Convention GbR and the Company Partners, CFK-Valley Stade e.V. & Sperlich GmbH

Prof. Dr.-Ing. Axel Herrmann, Chairman Steering Board CFK-Valley Stade e.V. (Stade)

Opening Speech

Dr. Oliver Liersch, State Secretary for Economics, Labour and Transport of Niedersachsen

10:15

Keynote Lecture: The Process Chain of Fiber Composites for Large Components in "CFK-NORD"

Matthias Meyer, German Aerospace Center, DLR (Brunswick) & Dirk Niermann, Fraunhofer-Institute for Manufacturing Technology and Applied Materials Research IFAM (Bremen)

10:30 Coffee Break & Exhibition

Session Aerospace Industry (Overview)

Chairman: Prof. Dr. Richard Degenhardt, German Aerospace Center, DLR (Brunswick) & Private University of Applied Sciences (Göttingen)

11:30

Process Chain of the CFRP-Barrel Manufacturing and Assembly

Helmut Färber, Vice President Plant Nordenham, Premium AEROTECH GmbH (Nordenham)

11:55

Titanium - An ideal Partner for CFRP

Werner Beck, FormTech GmbH (Weyhe-Dreye)

12:20

Advanced Automated Fibre Placement Technology

Dirk Röstermundt, German Aerospace Center (DLR) - Institute of Composite Structures and Adaptive Systems (Brunswick) & Christian Boge, MAG Hüller Hille GmbH (Mosbach)

12:45 Lunch Break & Exhibition

Program 15 June 2010

Session Aerospace

Chairman: Dr. Matthew Beaumont, EADS Deutschland GmbH - Innovation Works (Ottobrunn)

14:30

Non-Contact Measurement of Composites

Zach Rogers, Metris (Virginia, USA)

14:55

Frame Manufacturing by Braiding [BraF - Braided Frames]

Bettina Arolt, EADS Deutschland GmbH - Innovation Works (Stade)

15:20

Composite Flow Moulding

Roger Stadler, icotec AG (Altstätten, Switzerland)

15:45 Coffee Break & Exhibition

Session Automotive

Chairman: Dr.-Ing. Hilmar Apmann, Premium AEROTECH GmbH - Research and Development of Production Systems (Varel)

16:45

Cost Effective Engineering of Light Weight Structures

Günther Martin, VISTAGY Inc. Waltham (Massachusetts, USA)

17:10

Load Adapted Automotive Lightweight Structures in Composite Design

Leif Ickert, Institut für Kraftfahrzeuge (ika) - RWTH Aachen University (Aachen)

17:35

XXL-Milling Tool with innovative CFRP-Structure

Ludger Wellner, Fooke engineering works (Borken) & Dr.-Ing. Hans-Christian Möhring, Institute of Production Engineering and Machine Tools - IFW, University of Hanover (Hanover)

18:30 Evening Event



Program 16 June 2010

09:15 Greetings

Dr. Jens Walla, Airbus Deutschland GmbH – Plant Stade (Stade)

Session Windturbines

Chairman: N.N.

09:30

Approaches for an economically viable Preform Production for Wind-Turbine Rotorblades
Christoph Greb, Institut für Textiltechnik (ita) - RWTH Aachen University (Aachen)

09:55

Development of Electrically-Heated Ceramic Composite Tooling for Large Wind-Turbine Blade Manufacturing
Dr. Conchúr Ó Brádaigh, GreenBlade GmbH (Brandenburg)

10:20

Technical Advances made in Dow's AIRSTONE™ Product Portfolio for the Windmill Industry
Dr. Bernd Hoevel, Dow Deutschland Anlagengesellschaft mbH (Wuppertal)

10:45 Coffee Break & Exhibition

Session Shipbuilding & Architecture

Chairman: N.N.

11:45

Prevention and Failure Analysis on highly stressed CFRP-Components of High-End Racing Yachts
Dr. Olaf Guennewig, SGS INSTITUT FRESENIUS GmbH (Taunusstein)

12:10

New Developments in fire retardant Composite Structures or Marine Application
Jörg Bünker, SAERTEX GmbH & Co. KG (Saerbeck)

12:35

Pultruded fiber-reinforced Profiles for multi-layer textile Building Envelopes
Fritz Mielert, Institute for Lightweight Structures and Conceptual Design University of Stuttgart (Stuttgart)

13:00 Summary/Closing Remarks

15 June 2010 · Evening Event

Enjoy the evening in a relaxed atmosphere at "Gut Deinster Mühle". You will have the opportunity to make new business contacts as well as to strengthen old ones in our exclusive pavilion. You can use the evening to continue earlier conversations from the first Convention day and socialize with fellow Congress participants.

The evening event will be rounded off with musical accompaniment of bass, clarinet and saxophone.

A shuttle service has been arranged to transfer participants from the STADEUM to "Gut Deinster Mühle" and then afterwards to individual hotels. Join us!

Gut Deinster Mühle
Im Mühlenfeld 30
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Location

Stade has a lot to offer. No wonder, with a history of over a thousand years! History that can be seen not only in museums, but also living history that can be experienced in the beautifully renovated old town. Stade, the town on the Schwinge, has continued to develop as a cultural center of the Elbe-Weser Triangle since the completion of the STADEUM culture and congress center in 1989. The secret of the avant-garde building's success is the effective synthesis of atmosphere, experience, organisation, and engineering.

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21682 Stade
www.stadeum.de

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Single room 65,- €
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Exhibition

- 1 Airtech Europe Sarl
- 2 GKD-Gebr. Kufferath AG
- 3 Airbus Operations GmbH/CTC GmbH
- 4 Fraunhofer IFAM
- 5 Dassault Systèmes Deutschland GmbH
- 6 Flow Europe GmbH
- 7 LAP GmbH Laser Applikationen
- 8 PRIVATE FACHHOCHSCHULE GÖTTINGEN
- 9 German Aerospace Center, DLR e.V.
- 10 Ingenieurbüro TARTLER GmbH
- 11 ESI Engineering System International GmbH
- 12 Horst Witte Gerätebau Barskamp KG
- 13 Evonik Röhm GmbH
- 14 Klenk GmbH & Co. KG
- 15 Acrosoma NV
- 16 Saertex Stade GmbH & Co. KG
- 17 Toho Tenax Europe GmbH
- 18 M. Torres Deutschland GmbH
- 19 Olympus Deutschland GmbH/
Inspection Maintenance Systems-IMS
- 21 VOGT Ultrasonics GmbH

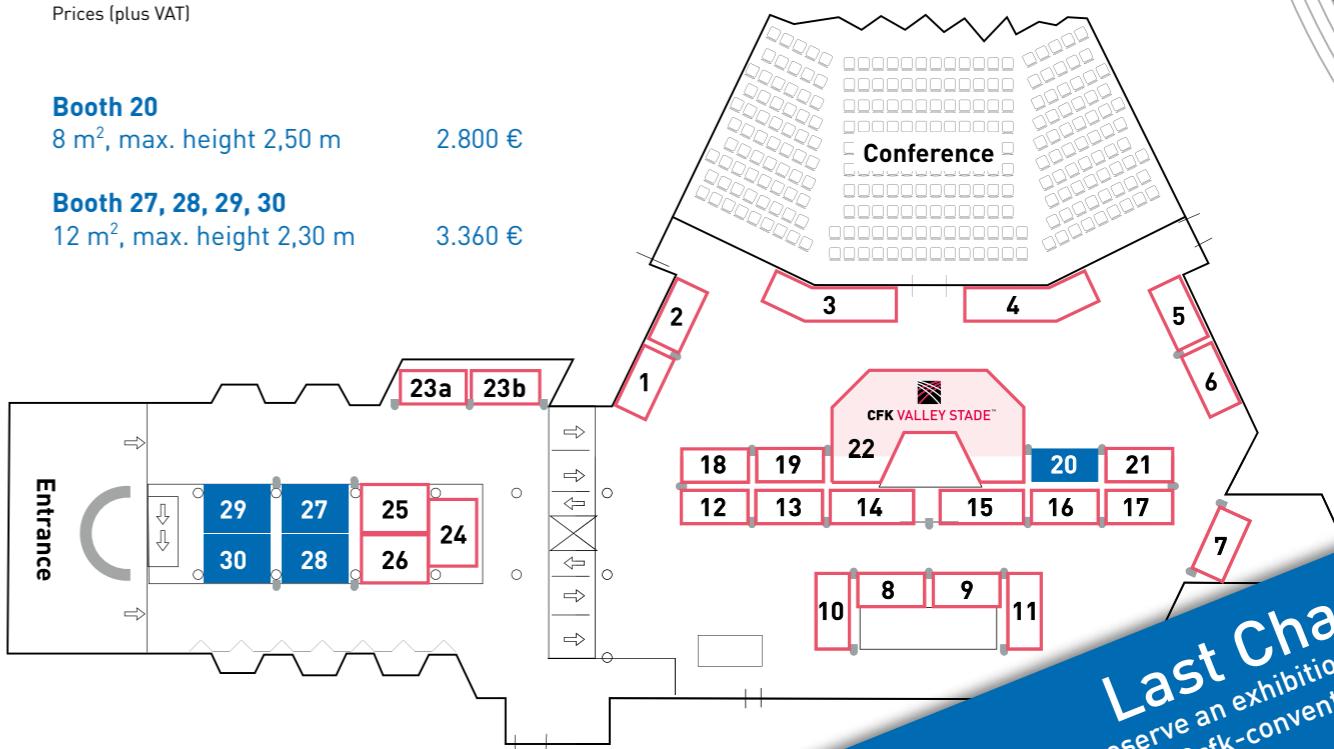
- 22 CFK-Valley Stade e.V. - Joint Booth
- 23a ISOJET EQUIPEMENTS
- 23b Carbon Composites e.V.
- 24 GMA-Werkstoffprüfung GmbH/
GMA-Engineering GmbH
- 25 Vistagy, Inc.
- 26 Federal Institute for Materials Research and Testing
 - Hansestadt Stade - Wirtschaftsförderung
 - Innovatives Niedersachsen GmbH
 - NBank / Enterprise Europe Network Niedersachsen
 - Niedersachsen Aviation
 - Onyx composites
 - Springer Fachmedien Wiesbaden GmbH / Lightweightdesign

Exhibition booths for the CFK-Valley Stade Convention
are available at the following prices:

Prices [plus VAT]

Booth 20
 8 m^2 , max. height 2,50 m 2.800 €

Booth 27, 28, 29, 30
 12 m^2 , max. height 2,30 m 3.360 €



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Participants 600 € plus VAT

every additional person 450 € plus VAT
(will be checked upon registration)

Participants 450 € plus VAT

(Member of CFK-Valley Stade e.V.)

Participants 450 € plus VAT

(Member of DGLR e.V.)

The fee includes conference, exhibition, conference proceedings,
lunch, refreshments during breaks, evening event

Students 80 € plus VAT
(Please include copy of student I.D. with registration form)

The fee includes conference, exhibition, lunch, refreshments during
breaks (without conference proceedings)

Legal Notice

You will receive an invoice for the participation fee upon receipt of your registration.
The number of participants is limited due to organizational reasons. In justified
cases, e. g. due to the cancellation of speakers or too few participants, we reserve
the right to cancel the convention up to one week before the appointed day. The
paid fees will be reimbursed in this case. Any further claims to CFK-Valley Stade
Convention GbR will be excluded. With your signature, you consent that your data
may be entered into the CFK-Valley Stade Convention GbR database. Your data will
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Organization

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Company Partners



Registration

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