

2011
Expert Conference on the Topic of
Composite Lightweight Constructions

5TH INTERNATIONAL CFK-VALLEY STADE CONVENTION

“Automation – Simulation, Processes & Materials”

07–08 June 2011, STADEUM Stade, Germany



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Greetings

The innovation ability of companies and research institutes is decisive for success in international competition. A strong industry and excellence in science are the foundation for economic growth and secure jobs.

For more than 20 years a unique competence in the field of composite fiber lightweight construction has been developing at the location of Stade in Niedersachsen. CFK-Valley Stade e.V. pools together the complementary competences of almost 100 members, successfully supporting the innovation process in relevant companies, universities and research institutions.

The topic of this year's CFK-Valley Stade Convention "CFRP Automatization – Simulation, Processes and Materials" describes the high demands on all those who apply CFRP in different applications. Niedersachsen is the state of mobility in the heart of Europe. The automobile industry is the backbone of Niedersachsen's economy and the aviation industry, with over 30,000 highly qualified employees, holds a prominent position. The North German seaports, shipping companies and shipyards are Niedersachsen's gateway to the world.

The combination of economically strong companies and excellent experts at the CFK-Valley Stade Convention gives an important impetus for progress in different areas of mobility. For example, with the application of CFRP, weight can be reduced and, as a result, energy can be saved during the operation of aircraft, automobiles and ships. Particularly in automotive en-

gineering, important milestones were reached last year with the different lightweight construction concepts of large automobile manufacturers that entail the application of CFRP and a consistent lightweight construction of vehicles. This is a step in the direction of an environmentally more friendly mobility of tomorrow.

Production costs must be decreased and technological challenges must be overcome in order for CFRP and CFRP technologies to penetrate the mass market. CFK NORD, Europe's largest CFRP research center, is open and will strengthen expertise in the automated manufacture of CFRP components in Niedersachsen. The state of Niedersachsen actively supports the developments at CFK-Valley Stade and will continue to develop this growth market in the future for Germany as an industrial location.

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



Jörg Bode

Minister for Economics, Labour and Transport
of Niedersachsen



Greetings

Main focus of this year's CFK-Valley Stade Convention is on "CFRP Automatization – Simulation, Processes, Materials". The specific process design requirements call for a comprehensive view of the value chain in order to achieve in stable processes with high production quality within manufacturing.

CFK NORD has gone into operation and in February of this year the industrial CFRP recycling plant was opened, thus completing the value chain in Stade. At the same time recycling used material means closing the chain to start up a new cycle.

The lectures at this year's CFK-Valley Stade Convention deal with cross-sectoral issues on the topic of the automatization of CFRP. These can pertain to the continuous manufacture of textile performs, the development of dry-fiber placement strategies and automated vacuum infusion processes or digital process simulation. Of course insights gained from RTM technology are particularly interesting with regard to the automobile industry. The objective is always an increase in productivity during the complicated handling of the material in the production process. The gauge for the quality of the products is very high but it was still possible to advance developments in different branches of industries that enable a widespread application of CFRP.



The lectures will comprehensively deal with different requirements along the value chain and will supply the basis for intensive dialog within the framework of the exhibition. As at the convention last year, you may again expect presentations in the exhibition of new products on the topic of CFRP from over 40 companies and research institutions. Interest in this year's convention was overwhelming from the beginning – a clear indication that we are operating in a growth market with high dynamics.

I wish all participants of this year's CFK-Valley Stade Convention interesting contacts and a lively exchange that will lead to new technical solutions and economic success.

A handwritten signature in black ink, appearing to read "Axel S. Herrmann". The signature is fluid and cursive.

Prof. Dr.-Ing. Axel S. Herrmann

Chairman of the Steering Board of 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 fifth 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 City of Stade, 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 City of Stade. The deadline for entries is **06 May 2011**.

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



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of Applied Sciences



Program 07 June 2011

10:00

Greetings from the CFK-Valley State 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. Georg Schütte, State Secretary at the Federal Ministry of Education and Research (Berlin) *requested speaker*

10:15

Keynote Lecture: The ALCAS CFRP door surround structure from scratch to the final test component

Dr.-Ing. Markus Kleineberg, German Aerospace Center DLR, Institute of Composite Structures and Adaptive Systems (Brunswick)

10:30 Coffee Break & Exhibition

Session Materials

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

11:30

Galvanic metallisation of CFRP devices

Dr. Andreas Dietz, Fraunhofer-Institute for Surface Engineering and Thin Films IST (Brunswick)

11:55

HexMC®: a carbon compound suitable for highly loaded complex structures made in large volume

Sylvain Delalande, HEXCEL Composites (Dagneux, France)

12:20

High performance foam cores for Omega profile stiffened monolithic structures in aircraft applications

Felix Goldmann, Evonik Röhm GmbH (Darmstadt)

12:45 Lunch Break & Exhibition

Session Simulation

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

14:30

Process simulations for composites forming of UD tape laminates

Prof. Remko Akkerman, University of Twente & TPRC (Enschede, The Netherlands)

14:55

Draping simulation – the key to low cost high performance net shape parts?

Andreas Knotte, German Aerospace Center DLR, Institute of Composite Structures and Adaptive Systems (Brunswick)

15:20

Driving composite innovations with PLM software solutions

Joachim Bauer, Dassault Systemes Deutschland GmbH (Stuttgart)

15:45 Coffee Break & Exhibition

Session Simulation

Chairman: Dr.-Ing. Tobias Wille, German Aerospace Center DLR, Institute of Composite Structures and Adaptive Systems (Brunswick)

16:45

Simulation for mass production of automotive composite structural components

Marquette Pierre, ESI Group (Bordeaux, France)

17:10

Numerical simulation of the crash behaviour of braided composites

Ralf Matheis, Institut für Kraftfahrzeuge (ika) - RWTH Aachen University (Aachen)

17:35

Shell- and solid modeling of composite structures as a base for simulation driven optimization processes

Dr.-Ing. Cord Steinbeck-Behrens/Dr.-Ing. Matthias Hörmann, CADFEM GmbH (Hanover/Grafring)

18:30 Evening Event

Program 08 June 2011

09:15 Greetings

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

Session Processes

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

09:30

ASPIRATE, a new green process to machine CFRP safe, clean and efficiently

Joseba Perez Bilbatua, IDEKO-IK4 (Elgoibar, Spain)

09:55

Automated impregnation of thick preforms for cost-effective manufacturing of fibre reinforced plastics

Michael Kaiser, Institute of Aircraft Design - University of Stuttgart (Stuttgart)

10:20

The way to consequent lightweight design: Reflection of the efficiency in high volume productions

Andreas Hoberg, Ingenics AG (Hamburg)

10:45 Coffee Break & Exhibition

Session Processes

Chairman: Dr.-Ing. Martin Röhrig, Composite Technology Center Stade GmbH (Stade)

11:30

Stringer integration within complex fuselage shell

Georg Lonsdorfer, Composite Technology Center Stade GmbH (Stade)

11:55

Compression RTM – A new process for manufacturing high volume continuous fiber reinforced composites

Raman Chaudhari, Fraunhofer Institute for Chemical Technology ICT (Pfinztal)

12:20

High output automated process for large aircraft composite structures

Patrick Rousseau, Forest-Liné Capdenac SAS (Capdenac, France)

12:45

Continuous preforming technologies for curved CFRP profiles

Holger Purot, Faserinstitut Bremen e.V. (Bremen)

13:10 Summary/Closing Remarks

Evening Event 07 June 2011

Enjoy the evening in a relaxed atmosphere at the CFK-NORD research center. 20,000 m² of research space, more than 100 highly qualified engineers, 10 institutions under one roof: These impressive figures describe the CFK NORD large-scale research center.

During the evening event you will have the opportunity to make new business contacts as well as to strengthen old ones. Take advantage of the evening to continue earlier conversations from the first Convention day and socialize with fellow participants.

A shuttle service has been arranged to transfer participants from the STADEUM to "CFK NORD" and then to individual hotels afterwards. Come join us!

CFK NORD

Ottenbecker Damm 12
21684 Stade

53° 34' 26" North
09° 30' 26" East





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, organization, and engineering.

STADEUM Kultur- und Tagungszentrum GmbH & Co. Betriebs KG

Schiffertorsstraße 6
21682 Stade
www.stadium.de



Hotels

Parkhotel Stade Hof

**Distance to Convention: 0.1 km
starting from 95.– EUR**

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www.parkhotel-staderhof.de

Hotel Altstadthotel „Zur Hanse“

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starting from 70.– EUR**

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www.altstadthotel-stade.de

Hotel Am Holzhafen

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starting from 79.– EUR**

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Hotel Garni „Am Obsthof“

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starting from 47.50 EUR**

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21682 Stade

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Hotel „Vier Linden“

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Exhibition

Space B

- 1 Airtech Europe Sarl
- 2 GKD-Gebr. Kufferath AG
- 3 Airbus Operations GmbH/CTC GmbH
- 4 Fraunhofer IFAM
- 5 fibretech-composites GmbH
- 6 Flow Europe GmbH
- 7 LAP GmbH Laser Applikationen
- 8 PRIVATE FACHHOCHSCHULE GÖTTINGEN
- 9 German Aerospace Center, DLR e.V.
- 10 GMA-Werkstoffprüfung GmbH/GMA-Engineering GmbH
- 11 ESI Engineering System International GmbH
- 12 Dassault Systemes Deutschland GmbH
- 13 Olympus Deutschland GmbH, Inspection Maintenance Systems-IMS
- 14 Klenk GmbH & Co. KG
- 15 Forest-Line
- 16 AXSON GmbH
- 17 Toho Tenax Europe GmbH
- 18 M. Torres Deutschland GmbH
- 19 gwk Gesellschaft Wärme-Kältetechnik mbH
- 20 Fraunhofer IZFP
- 21 Evonik Röhm GmbH
- 22 CFK-Valley Stade e.V. - Joint Booth

Space A

- 23b Carbon Composites e.V.
- 24 Keyence Deutschland GmbH
- 26 JEC Composites
- 28 Heraeus Noblelight GmbH

Additional Exhibition

- > Hansestadt Stade - Wirtschaftsförderung
- > Innovatives Niedersachsen GmbH
- > Onyx composites
- > werkzwo GmbH

Matchmaking Event

- > NBank / Enterprise Europe Network Niedersachsen

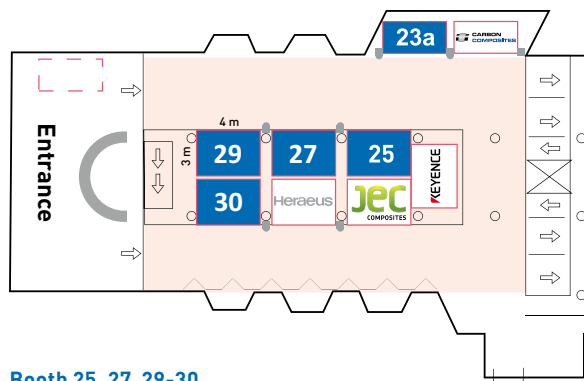
Exhibition booths for the CFK-Valley Stade Convention are available at the following prices:

Prices (plus VAT)

Booth 23a

8 m², max. height 2.50 m

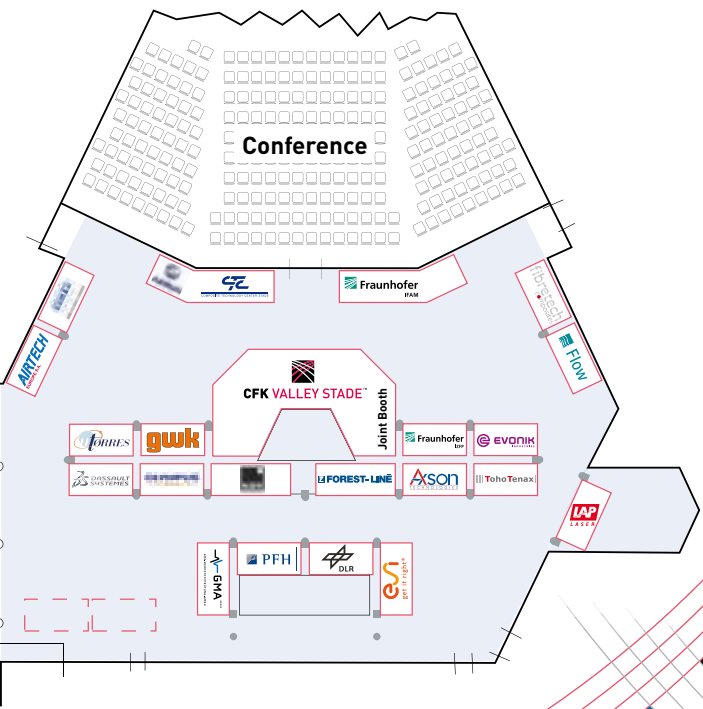
2.800 €



Booth 25, 27, 29-30

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anne-grete.becker@ifam.fraunhofer.de
www.ifam.fraunhofer.de



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fibretech-composites GmbH

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Phone +49 421 3038519
jens.brandes@fibretech-composites.de
www.fibretech-composites.de



Booth 6

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A man wearing a grey lab coat, safety glasses, and white gloves is holding a small, dark component with a blue tool, inspecting it closely in a laboratory setting.

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A man in a light blue shirt is sitting at a desk, looking at two computer monitors. The left monitor shows a technical drawing, and the right monitor shows a 3D CAD model of a green and white mechanical part.

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Booth 22 - Joint Booth CFK-Valley Stade e.V.

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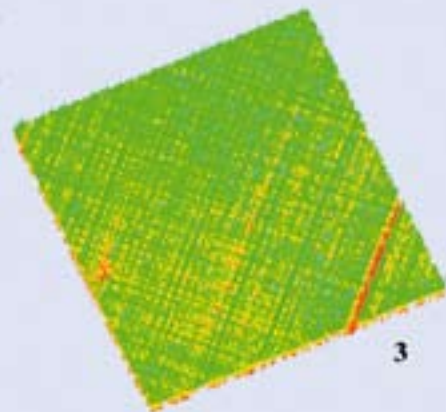
CFK VALLEY STADE™



The Fraunhofer IZFP is engaged in research and development when quality assurance and/or proof of technical safety are required. The expertise comprises the physical fundamentals, sensor technologies, design of testing instruments, nano-analytics, system maintenance, staff training and services.

Offers for CFRP Applications

- Quality assurance of multiaxial raw carbon fiber materials
- Thickness measurement of CFRP and woven fabrics
- Dynamic mechanical analyses
- And many more...



COME AND VISIT US AT BOOTH 20

Pictures:
1. IZFP-D Headquarters
2. Eddy Current Array
3. Visualization of EC Scan

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Matchmaking Event

The CFK Convention offers you for the first time the chance to meet potential business partners in pre-arranged meetings. This Matchmaking Event is the new meeting point to establish technology co-operations, partnerships for R&D and commercial agreements.

In order to take part in the event you just have to

- complete the registration form by providing a profile of your company/ your organisation
- browse the online catalogue to identify interesting profiles
- book one-to-one meetings with your preferred contacts and monitor the number of meetings organised for your company.

The event is organised by the Enterprise Europe Network of the NBank and is free of charges for participants of the CFK- Convention.

The Enterprise Europe Network offers support and advice to businesses across Europe and helps them to make the most of the opportunities of the European Union. It is made up of close to 600 partner organisations in more than 40 countries, promoting competitiveness and innovation at the local level in Europe and beyond.

Registration: www.cfk-valley.com/matchmaking





Büroflächen im CFK-Valley gesucht?

Telefon: 04141 / 401-140

Weitere Informationen bei:

Wirtschaftsförderer Thomas Friedrichs
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Oder Gewerbeflächen
am CFK NORD?



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KUKA

COMPOSITE SOLUTIONS

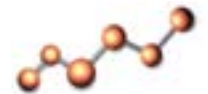
KUKA Systems is an international supplier of flexible automation systems for the automotive, aerospace, energy and general industries.

Together with our partners from Science and Research, we are developing automation for manufacturing parts made of composite materials. In this way we supply production solutions - with varying degrees of automation - for applications in different industries for example wind energy, automotive and aerospace.

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Fees

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 be treated confidentially and will not be disclosed to third parties.

Organization

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CFK-Valley Stade Convention GbR

c/o CFK-Valley Stade e. V.
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Position / department

Street / P.O. box

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Phone / fax

E-mail

Deadline 21 May 2011

Binding registration (please check appropriate item):

Member of CFK-Valley Stade e.V.

Member of DGLR e.V.

Student

Date

Signature





MEDIA PARTNER

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