

7TH INTERNATIONAL
CFK-VALLEY STADE CONVENTION

“Latest Innovations in CFRP Technology”

11–12 June 2013, STADEUM Stade (Germany)



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GREETINGS



This year's 7th International CFK-Valley Stade CONVENTION will once again present you interesting lectures and an exhibition with innovative solutions from the field of high-performance composites. The topic of the "Latest Innovations in CFRP-Technology" will be addressed this year across all industrial sectors.

In the past few years, CFK-Valley Stade e.V. has continued to diversify beyond the aerospace sector into further branches of industry. A number of composite innovations particularly from the wind turbine, automotive, mechanical engineering and rail vehicle industries speak for themselves.

Much has happened at CFK-Valley Stade since the last CONVENTION. The large-scale research establishment CFK NORD is now operating at full capacity. An outstanding achievement was the installation of a 45 m rotor blade form in the "DLR Center for Lightweight Production Technology" hall area. Now the entire wind energy industry is looking into the possibilities Stade has to offer. The first large-scale tests with cooperation partners from the network have already taken place.

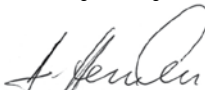
In addition, associates from the Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM) are work-

ing intensively on processing and assembly issues. As a result, a "hall within a hall" has been created as a machining center for large components. Also, additional robots on linear axis motors have been installed that will enable new developments for the automated processing and assembly of large CFRP components.

In keeping with what has become tradition by now, the lectures at this year's CFK-Valley Stade CONVENTION focus on topics related to the automatization of carbon-fiber reinforced polymers in diverse branches of industry. In view of the aviation and automotive industry, progress in the field of process technology is always particularly interesting. A constant prime objective is acceleration of the complicated fiber placement process as well as shortening the curing time of the material during the production process. The objective here is to establish a stable process for quantities of about 100,000 pieces per year.

Against this exciting background, I wish the participants of the 7th international CFK-Valley Stade CONVENTION interesting contacts and stimulating exchanges that will lead to new technical solutions and economic success.

Warm greetings from Stade – Your

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

Prof. Dr.-Ing. Axel S. Herrmann

Chairman of the Steering Board of CFK-Valley Stade e.V.

BOARD OF EXPERTS

The Technology Advisors of the CFK-Valley Stade e.V. – 11 experts for technical topics.

Product Design

Joachim Bauer, Dassault Systemes Deutschland GmbH (Stuttgart)

Process Simulation

Prof. Dr.-Ing. habil. Siegfried Bludszuweit, MET Motoren- und Energietechnik GmbH (Rostock)

Materials & Auxiliaries

Dr.-Ing. Hauke Lengsfeld, HEXCEL Composites GmbH (Stade)

Manufacturing Processes

Georg Lonsdorfer, Composite Technology Center GmbH Stade (Stade)

Product Systems

Axel Schnülle, Composite Technology Center GmbH Stade (Stade)

Material Processing (Machining)

Prof. Dr.-Ing. Wolfgang Hintze, TU Hamburg-Harburg - Institut für Produktionsmanagement und -technik (Hamburg)

Joining & Assembly-Techniques

Dr.-Ing. Alexander Gessenharter, Airbus Operations GmbH (Stade)

Surface-Technology

Gregor Graßl, Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung IFAM (Stade)

Training & Education

Prof. Dr.-Ing. Wilm Unckenbold, PFH - Private Hochschule Göttingen (Stade)

Recycling

Tim Rademacker, CFK Valley Stade Recycling GmbH & Co. KG (Wischhafen)

Quality / Testing / Qualifications

Rüdiger Vollmerhaus, GMA-Werkstoffprüfung GmbH (Stade)

COMPOSITE INNOVATIONS AWARD

The "Composite Innovations Award" for particularly innovative developments in CFRP lightweight construction will be bestowed for the seventh time at the CFK-Valley Stade Convention.

The "Composite Innovations Award" is endowed with a Degree grant for the "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 achievements 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 **26 April 2013**.

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





10:00

Opening speech from CFK-Valley Stade Convention GbR and the company partners, CFK-Valley Stade e.V. & innos - Sperlich GmbH
Prof. Dr.-Ing. Axel Herrmann, Chairman Steering Board CFK-Valley Stade e.V. (Stade)

10:10

Keynote Lecture

Dr.-Ing. Amer Affan, Affan Innovative Structures LLC (Dubai, United Arab Emirates)

10:45 Coffee Break & Exhibition

SESSION: APPLICATIONS



Chairman:
Dr. Dirk Niermann,
Fraunhofer Institute IFAM
(Stade)



11:30

FRP E-Mobile Battery Case Concept Study

Alexander Gillessen, CTC GmbH Stade (Stade)

11:55

CFRP Upper Wing Cover for Natural Laminar Flow

Dr.-Ing. Christian Hühne, DLR – Institute of Composite Structures and Adaptive Systems (Brunswick)

12:20

Requirements of interplanetary space missions to the production of large CFRP structures

Dr. Holger Purolo, xperion Aerospace GmbH (Immenstaad)

12:45

Manufacturing of complex sandwich components for helicopters using Automated Fiber Placement

Alexander Kerner, Eurocopter Deutschland GmbH (Donauwörth)

13:10 Lunch Break & Exhibition

SESSION: INDUSTRIALIZATION



Chairman:
Dr. Felix Kruse, Aerospace
Center (DLR) – Center for
Lightweight-Production-
Technology [Stade]



14:30

Form-variable handling technology (FormHand) for automation in RTM performing

Dr.-Ing. Annika Raatz, Technische Universität Braunschweig, IWF (Brunswick)

14:55

Quality Assurance along the value added chain - Nondestructive Testing of Fabrics, Preforms and CFRPs by Eddy Current Imaging

Prof. Dr. Henning Heuer, Fraunhofer Institute for Nondestructive Testing - Dresden branch IZFP-D (Dresden)

15:20

Online Quality Assurance, Process Analysis and Rejection Prevention for Complex Carbon Fibre Preforms

Christoph Hess, EADS Innovation Works [Stade]

15:45

Adaptive Exhaust Strategies for CFRP Machining - an Improvement for Health, Safety and Energy Efficiency

Andreas Gebhardt, Fraunhofer Institute for Manufacturing Engineering and Automation IPA (Stuttgart)

16:10 Coffee Break & Exhibition

SESSION: MATERIALS



Chairman:
Tim Rademacker,
carboNXT GmbH
(Wischhafen)



17:00

One-Shot Wind Turbine Blade Manufacturing using Powder-Epoxy and Electrically-Heated Ceramic Composite Tooling

Dr. Conchúr Ó Brádaigh, National University of Ireland, Galway & ÉireComposites Teo. (Galway, Ireland)

17:25

Nonwovens made of recycled carbon fibres as basic material for composites

Dr. Heike Illing-Günther, Sächsisches Textilforschungsinstitut e.V. STFI (Chemnitz)

17:50

Corrosion behaviour of a self-pierce rivet joint of CFRP-laminate and EN AW-6060-T6 subjected to laboratory and outdoor exposure tests

Prof. Dr.-Ing. Lutz Krüger, Technische Universität Bergakademie Freiberg (Freiberg)

18:30 EVENING EVENT INCL. BESTOWAL OF THE "COMPOSITE INNOVATIONS AWARD" 2013

Location: "CFK NORD"

A shuttle service will bring all participants from the STADEUM directly to "CFK NORD" and back to the hotels later in the evening.

EVENING EVENT 11 JUNE 2013

All participants are warmly welcome to the Solar Hall of "CFK NORD" in Stade. Spend a recreative evening with speakers, exhibitors and participants at the research center with his awarded architecture and enjoy an Arabic evening with several delectabilities at the distinctive Solar Hall.

Use the exciting atmosphere of modern times and oriental flair to continue earlier conversations from the first Convention day and socialize with fellow participants.

Highlight of the evening will be the bestowal of the „Composite Innovations Award“ 2013.

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





09:15

Greetings

Prof. Dr.-Ing. Martin Wiedemann, DLR Institute of Composite Structures and Adaptive Systems (Brunswick)

SESSION: SIMULATION



Chairman:
Joachim Bauer, Dassault
Systemes Deutschland
GmbH (Stuttgart)



09:30

Bonding of CFRP primary Aerospace structures: Boundary conditions for certification

Thomas Kruse, Airbus Operations GmbH (Hamburg)

09:55

Characterisation of curing behaviour of carbon fibre epoxy prepreg (CFK, CFC) – analysis of non-cured prepreg and autoclave curing process

Dr. Wolfgang Stark, BAM Federal Institute for Materials Research and Testing (Berlin)

10:20

Static and fatigue behaviour of satin weave carbon/PPS composite: experimental results and validation with meso-scale modelling

Prof. Dr. Wim Van Paepegem, Ghent University (Gent, Belgium)

10:45 Coffee Break & Exhibition

SESSION: PRODUCTION



Chairman:
Georg Lonsdorfer,
Composite Technology
Center GmbH Stade
(Stade)



11:45

Development of flexible systems for automated assembly and machining of large CFRP Structures

Juan Ramirez-Martinez / Simon-Markus Kothe, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM (Bremen)

12:10

RTM-Processing for Net Shaped Parts in High Quantities

Sven Torstrick, Aerospace Center (DLR) – Center for Lightweight-Production-Technology (Stade)

12:35

Stringer production A350 XWB Wing upper cover

Jan Christoph Kako, Airbus Operations GmbH (Hamburg)

13:00 SUMMARY & CLOSING REMARKS



LOCATION

Stade has a lot to offer. No wonder, with a history that dates back 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. Since completion of the STADEUM culture and congress center in 1989, Stade, the town on the Schwinge, has continued to develop as a cultural center of the Elbe-Weser Triangle. The secret of the avant-garde building's success is an effective synthesis of atmosphere, experience, organisation, and engineering.

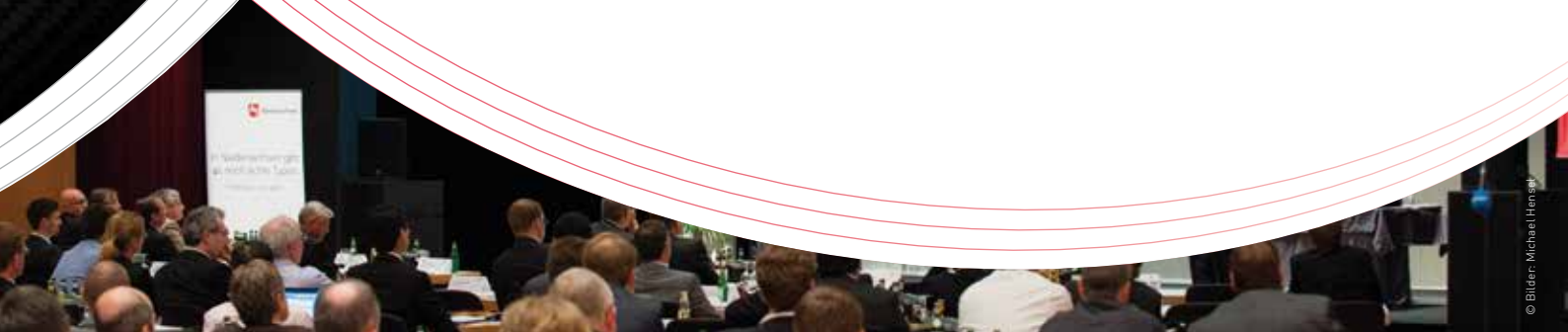
STADEUM Kultur- und Tagungszentrum

GmbH & Co. Betriebs KG

Schiffertorsstraße 6

21682 Stade

www.stadium.de



HOTELS

Some hotel recommendations (sorted by distance to STADEUM) for the stay during the CFK-Valley Stade Convention.

We offer all participants - **till 06 May 2013** - a room contingent with reduced prizes (prizes incl. Single Bed & Breakfast). Please book under the **keyword "CFRP Innovations"**.

PARKHOTEL STADER HOF

Distance to Convention: 0.1 km
starting from 95.- EUR
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21682 Stade
Tel. +49 4141 499-0
www.parkhotel-staderhof.de

RAMADA HOTEL "HERZOG WIDUKIND"

Distance to Convention: 3.1 km
starting from 90.- EUR
Große Schmiedestraße 14
21682 Stade
Tel. +49 4141 99980
www.ramada.de/stade

HOTEL AM HOLZHAFEN

Distance to Convention: 1.1 km
starting from 69.- EUR
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21682 Stade
Tel. +49 4141 529088
www.hotel-in-stade.de

GOLF-HOTEL „GUT DEINSTER MÜHLE“

Distance to Convention: 10.5 km
starting from 75.- EUR
Im Mühlenfeld 30
21717 Deinste
Tel. +49 41 49 925250
www.allesistgdm.de



EXHIBITION

Space B

- 1 SWMS Systemtechnik Ingenieurgesellschaft mbH
- 2 GWP Gesellschaft für Werkstoffprüfung mbH
- 3 Airbus Operations GmbH/CTC GmbH
- 4 Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung IFAM
- 5 Airtech Europe Sarl
- 6 Synthesites Innovative Technologies Ltd.
- 7 LAP GmbH Laser Applikationen
- 9 PRIVATE HOCHSCHULE GÖTTINGEN
- 10 GMA-Werkstoffprüfung GmbH/
GMA-Engineering GmbH
- 11 ESI Engineering System International GmbH
- 12 Mahr Metering Systems GmbH
- 13 Coriolis Composites GmbH
- 14 Klenk GmbH & Co. KG
- 15 DLR - Institut für Faserverbundeleichtbau
und Adaptronik
- 16 Toho Tenax Europe GmbH
- 17 AXSON Technologies
- 18 M. Torres Deutschland GmbH
- 19 SGS Tool GmbH
- 20 Fraunhofer-Institut für Zerstörungsfreie
Prüfverfahren IZFP
- 21 Evonik Industries AG

- 22 CFK-Valley Stade e.V. - Joint Booth
 - > 3D CONTECH GmbH & Co. KG
 - > Acrosoma NV
 - > BCT Steuerungs- und DV-Systeme GmbH
 - > Gefran Deutschland GmbH
 - > HDE Consult GmbH
 - > Hufschmied Zerspanungssysteme GmbH
 - > Laser Zentrum Hannover e. V.
 - > Luratec AG
 - > MET Motoren- und Energietechnik GmbH
 - > Onyx composites GmbH
 - > Ingenieurbüro TARTLER GmbH

Space A

- 23 a Carbon Composites e.V.

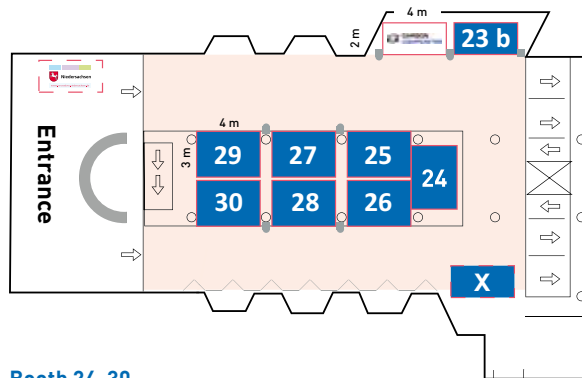
Additional Exhibition

- > Hansestadt Stade - Wirtschaftsförderung
- > Innovationszentrum Niedersachsen Strategie und Ansiedlung GmbH

Exhibition booths for the CFK-Valley Stade Convention are available at the following prices:
 Prices (plus VAT)

Booth 23b
 8 m², max. height 2.50 m

2.240 EUR

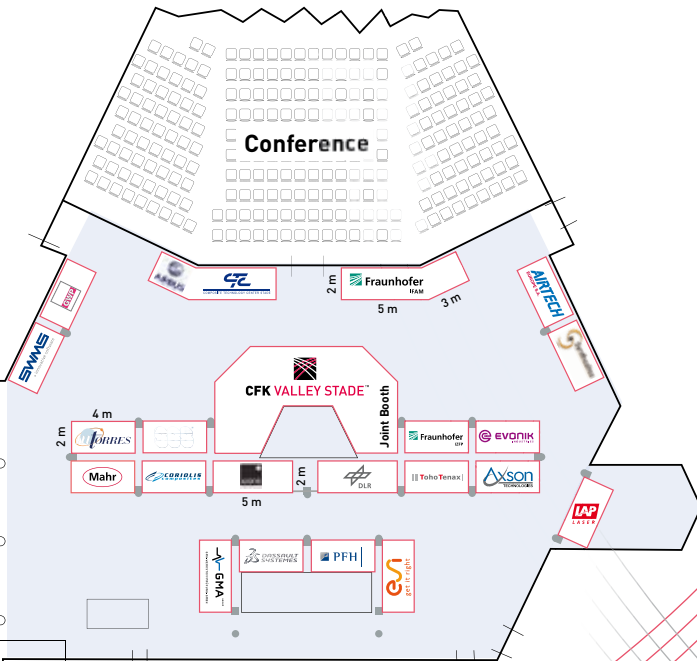


Booth 24-30
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3.360 EUR

Booth X
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on Request



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elke.marchthaler@gwp.eu
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Phone +49 4141 938-500
www.ctc-gmbh.com
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Booth 4

Fraunhofer-Institut für Fertigungstechnik und Ange- wandte Materialforschung IFAM

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28359 Bremen

Phone +49 421 2246-400
ktinfo@ifam.fraunhofer.de
www.ifam.fraunhofer.de

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s.davreux@airtech.lu
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www.hufschmied.net

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CFK VALLEY STADE™



FEES

Participants **600 € plus VAT**
Each 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 and evening event)

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. Any cancellation of participant registration received after 24 May 2013 will require full payment (100%) of the participation fee. A legally valid cancellation (as participant) must be submitted in writing. The undersigned/participant furthermore agrees that photos and film material concerning him or her may be produced and published and that photos of him or her may be published (in further print publications). 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

Main Office
CFK-Valley Stade Convention GbR

c/o CFK-Valley Stade e. V.
Ottenbecker Damm 12
21684 Stade (Germany)

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Company / organisation

Position / department

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Deadline 24 May 2013

Binding registration (please check appropriate item):

- Member of CFK-Valley Stade e.V./DGLR e.V.
- Non-Member
- Student

Date

Signature*

Registration also possible:
www.cfk-convention.com/registration

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