

**6<sup>TH</sup> INTERNATIONAL  
CFK-VALLEY STADE CONVENTION**

**"Productivity and Economic Efficiency"**

12–13 June 2012, STADEUM Stade (Germany)

**2012**

Expert Conference on the Topic of  
Composite Lightweight Constructions



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## GREETINGS



CFK-Valley Stade has become one of the leading lightweight clusters in the periphery of the Airbus plant, which has been active in aircraft production for more than 35 years. This positive development is strategically significant for the state of Niedersachsen as a location for aerospace with approximately 30,000 employees working in this field.

There is a consensus between CFK-Valley and the state of Niedersachsen that the excellent material properties of CFRP can lead to decisive impetus that increase competition and optimize consumption in other important branches of industry as well. CFRP, for example, enables the production of more efficient XXL rotor blades for powerful wind turbines.

The specific material properties of CFRP pose considerable challenges for the manufacturing industry. Compared to metals, many processes, ranging from material processing and manufacturing technology to assembly, must be redefined. Manufacturing technologies in particular must be developed that allow for the reliable, automated manufacture of large structures in high quality and amount.

CFK NORD, the new research center in Stade, specializes in precisely this area. At this center, the large-scale research

establishments Fraunhofer IFAM, ZLP, DLR, and NTH work together with the industry on realizing these necessary innovations. CFK NORD is supported by the state of Niedersachsen with a budget of 70 million euros.

Recent results of a study carried out by a renowned consulting firm show that the production of carbon fiber-reinforced polymers will increase by about 20% per year by 2030. CFRP will increase in significance in the field of aviation. According to this forecast, the application of this material will also considerably increase in the automobile industry and in offshore/wind technology.

The mobility industry shapes the industrial and technological landscape of the state of Niedersachsen just as the topic of "wind power as an alternative form of energy" does. We want to maintain and further develop our leading position in Germany in all of these areas.

I wish all participants of the Convention a successful event, interesting conversations and a pleasant stay in Stade.

A handwritten signature in black ink, appearing to read "Jörg Bode".

**Jörg Bode**

Minister for Economics, Labour and Transport  
of Niedersachsen

## GREETINGS



The key topic of this year's CFK-Valley Stade CONVENTION is "Productivity and Economic Efficiency". The specific requirements for the process design require a comprehensive approach to the value-added chain in order to establish stable and high-quality production processes.

A number of new things have happened at CFK-Valley in Stade since the last CONVENTION. The first robots for a fully automatic assembly of the Fraunhofer IFAM were installed at CFK NORD and the "BALU" autoclave of the DLR has begun operation. Also, the CFK-Valley Stade e.V. network has sustainably surpassed the mark of 100 members. In addition, new challenges, particularly those from automobile manufacture and the wind power industry, are bringing interesting topics into play.

The lectures at this year's CFK-Valley Stade CONVENTION specifically deal with the automatization of CFRP. Progress in the area of process technology is particularly interesting with regard to the aircraft and automobile industries. The core objective is always the acceleration of the complicated handling and the shortening of the curing time of the material in the production process. Here it is important to establish stable processes for production batches of more than 100,000 pieces per

year. From the application of innovative multi-material systems to the topic of repairing CFRP structures, the 6th CFK-Valley Stade CONVENTION offers you a broad spectrum of interesting lectures and presentations.

The contributions of the speakers will once again provide the basis for in-depth discussions during the exhibition. Like last year, one part of the CONVENTION will be the presentation of new items on the topic of CFRP at the exhibition of more than 40 companies and research establishments. Interest in this year's CONVENTION was enormous at the forefront, just as it was last year – a sure sign that we are operating in a highly dynamic growth market.

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

A handwritten signature in black ink, appearing to read "Axel S. Herrmann".

**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 sixth 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 **27 April 2012**.

Further information and application forms can be found on the Internet at [www.cfk-convention.com/award](http://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)

**Greetings**

Silvia Nieber, Mayoress of the City of Stade (Stade)

**10:15**

**"The (Textile) Empire Strikes Back" - from airplane construction in the past to carbon fabrics for composites in the future**  
Peter D. Dornier, Lindauer DORNIER GmbH (Lindau/Bodensee)

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**10:30 Coffee Break & Exhibition**

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**SESSION: APPLICATIONS**



Chairman:  
Dr. Matthias Geistbeck,  
EADS Deutschland GmbH -  
Innovation Works (Ottobrunn)



**11:30**

**Automotive prospective on the application of carbon fibre**  
Dr. Armin Plath, Volkswagen AG (Wolfsburg)

**11:55**

**CAMISMA: Carbon/Amide/Metal based Interior Structure with Multi material system Approach**  
Axel Köver/Dr. Ulrich Riedel, Johnson Controls GmbH (Burscheid)

**12:20**

**Serial production of structural CFRP parts for the aerospace industry**  
Dr. Bernd Hirthammer, HDE Consult GmbH (Stade)/Dr. Holger Purol, xperion Aerospace GmbH (Immenstaad)

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**12:45 Lunch Break & Exhibition**

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## SESSION: PRODUCTION TECHNOLOGY



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



**14:15**

**Recent advances in robotic automated deposition of different materials**

Niko Naumann, Coriolis Composites GmbH (Augsburg)

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**14:40**

**The use of infrared heating for the production of fiber reinforced polymers**

Dr. Lotta Gaab, Heraeus Noblelight GmbH (Kleinostheim)

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**15:05**

**Resin transfer prepegging - process chain for large scale production of structural composite parts**

Marc Linus Fecher, RWTH Aachen University - Institute of Plastics Processing in Industry and the Skilled Crafts (Aachen)

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**15:30**

**Continuous composite fuselage panel production – a progressive approach for future aircraft structures**

Joachim Piepenbrock, Composite Technology Center Stade GmbH (Stade)/  
Jan Verhaeghe, ACROSOMA NV (Gent Area, Belgium)

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**15:55 Coffee Break & Exhibition**

## **SESSION: SIMULATION**



Chairman:  
Prof. Dr. Richard  
Degenhardt, German  
Aerospace Center, DLR  
(Brunswick)



**16:55**

**Simulation-based optimization of the manufacturing process for a composite marine propeller**  
Dr.-Ing. Hannes Kroeger, Voith Turbo Advanced Propeller Technologies GmbH & Co. KG (Rostock)

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**17:20**

**Potentials of novel FE simulation techniques for the machining of CFRP and composite materials**  
Dr.-Ing. Kay Marschalkowski, ISBE GmbH - Tool Engineering Center (Unna)

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**17:45**

**Digitized process chains - quality based production of large CFRP components**  
Sebastian Rosskamp, German Aerospace Center, DLR - Institute of Composite Structures and Adaptive Systems (Stade)

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**18:30 EVENING EVENT**

**Location: Gut Deinster Mühle**

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

## EVENING EVENT 12 JUNE 2012

All participants are warmly welcome to the „Gut Deinster Mühle“ in Deinste as a special way of concluding the first day of the Convention. Relax and unwind together with the speakers, exhibitors and participants at this 800-year-old manor and savor the summer atmosphere of a grill buffet with jazz music in the background.

Enjoy the fascinating contrast of the traditional and modern world and take advantage of the opportunity for more in-depth conversations on your first day of the Convention in a relaxed atmosphere such as in the traditional manor stables.

Highlight of the evening will be the bestowal of the "Composite Innovations Award" 2012.

A shuttle service will bring you from the STADEUM directly to the manor and back to the hotels later in the evening.

**Come join us!**

Location: Gut Deinster Mühle • [www.allesistgdm.de](http://www.allesistgdm.de)





**09:15**

**Greetings**

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

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**SESSION: MATERIALS**



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



**09:30**

**Lightweight aircraft components in multi-material design for small series production**

Prof. Dr.-Ing. habil. Prof. E.h. Dr. h.c. Werner Hufenbach/Dr.-Ing. Andreas Ulbricht, TU Dresden -  
Institute of Lightweight Engineering and Polymer Technology (Dresden)

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**09:55**

**Wind rotorblade manufacturing - stepchanges by new resins and release foils**

Dr. Bernd Hoevel, Dow Deutschland Anlagengesellschaft mbH (Mietingen-Baltringen)

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**10:20**

**Performance of recycled carbon fibre materials with examples of potential applications**

Tim Rademacker, carboNXT GmbH (Wischhafen)

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**10:45 Coffee Break & Exhibition**

## SESSION: POST PROCESSING



Chairman:  
Jürgen Richter,  
Premium AEROTEC  
GmbH (Varel)



**11:30**

### **High-speed spot welding of continuous fibre reinforced thermoplastic composites**

Irene Fernandez Villegas, Delft University of Technology - Design and Production of Composite Structures (Delft, The Netherlands)

**11:55**

### **Adaptive machining for efficient manufacture and repair of CFRP components**

Dr. Claus Bremer, BCT GmbH (Dortmund)

**12:20**

### **Automised assembly of CFRP Structures**

Dr. Patryk Burka/Gregor Graßl, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM (Stade)

**12:45**

### **Laser in Black: potentials of lasers within CFRP production**

Dr.-Ing. Dirk Herzog, LZN Laser Zentrum Nord GmbH (Hamburg)/  
Malte Scherner, Kämmerer GmbH Engineering (Hamburg)

**13:10 SUMMARY/CLOSING REMARKS**

# Machines for Prepreg Production

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Wind Energy Plants



Ship-building



Sporting Goods



Automotive Manufacturing



Aircraft Interior Trim

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# HOTELS

We offer all participants a hotel room contingent at special rates until **May, 08 2012**.  
Please, book under the keyword **“CFK”**.

## PARKHOTEL STADER HOF

Distance to Convention: 0.1 km  
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[www.parkhotel-staderhof.de](http://www.parkhotel-staderhof.de)

## 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](http://www.hotel-in-stade.de)

## AKZENT HOTEL „ZUR EINKEHR“

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21682 Stade  
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[www.hotelzureinkehr.de](http://www.hotelzureinkehr.de)

## HOTEL „VIER LINDEN KIEK IN“

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Tel. +49 4141 92702  
[www.hotel-vierlinden.de](http://www.hotel-vierlinden.de)

## RAMADA HOTEL “HERZOG WIDUKIND”

Distance to Convention: 3.1 km  
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21682 Stade  
Tel. +49 4141 99980  
[www.ramada.de/stade](http://www.ramada.de/stade)

## GOLF-HOTEL „GUT DEINSTER MÜHLE“

Distance to Convention: 10.5 km  
starting from 65.- EUR  
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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, organization, and engineering.

**STADEUM Kultur- und Tagungszentrum  
GmbH & Co. Betriebs KG**  
Schiffertorsstraße 6  
21682 Stade  
[www.stadeum.de](http://www.stadeum.de)



The Expert Forum for  
Composite Lightweight  
Construction



# EXHIBITION

## Space B

- 1 Airtech Europe Sarl
- 2 GKD-Gebr. Kufferath AG
- 3 Airbus Operations GmbH/CTC GmbH
- 4 Fraunhofer IFAM
- 5 Fraunhofer-Institut für Zerstörungsfreie Prüfverfahren IZFP
- 6 Flow Europe GmbH
- 7 LAP GmbH Laser Applikationen
- 8 PRIVATE HOCHSCHULE GÖTTINGEN
- 9 DE-STA-CO Europe GmbH
- 10 GMA-Werkstoffprüfung GmbH/GMA-Engineering GmbH
- 11 ESI Engineering System International GmbH
- 12 KauPo Plankenhorn e.K.
- 13 Heraeus Noblelight GmbH
- 14 Klenk GmbH & Co. KG
- 15 DLR - Institut für Faserverbundleichtbau und Adaptronik
- 16 Toho Tenax Europe GmbH
- 17 AXSON GmbH
- 18 M. Torres Deutschland GmbH
- 19 MAPAL Präzisionswerkzeuge Dr. Kress KG
- 20 Coriolis Composites GmbH
- 21 Evonik Industries AG

- 22 CFK-Valley Stade e.V. - Joint Booth
  - > Acrosoma NV
  - > CGTech Deutschland GmbH
  - > BRÖTJE-Automation GmbH
  - > BCT GmbH
  - > Bolle & Cords Elektrotechnik GmbH
  - > Hufschmied Zerspanungssysteme GmbH
  - > KUKA Systems GmbH
  - > Premium AEROTEC GmbH
  - > MET Motoren- und Energietechnik GmbH
- 23 b Linn High Therm GmbH

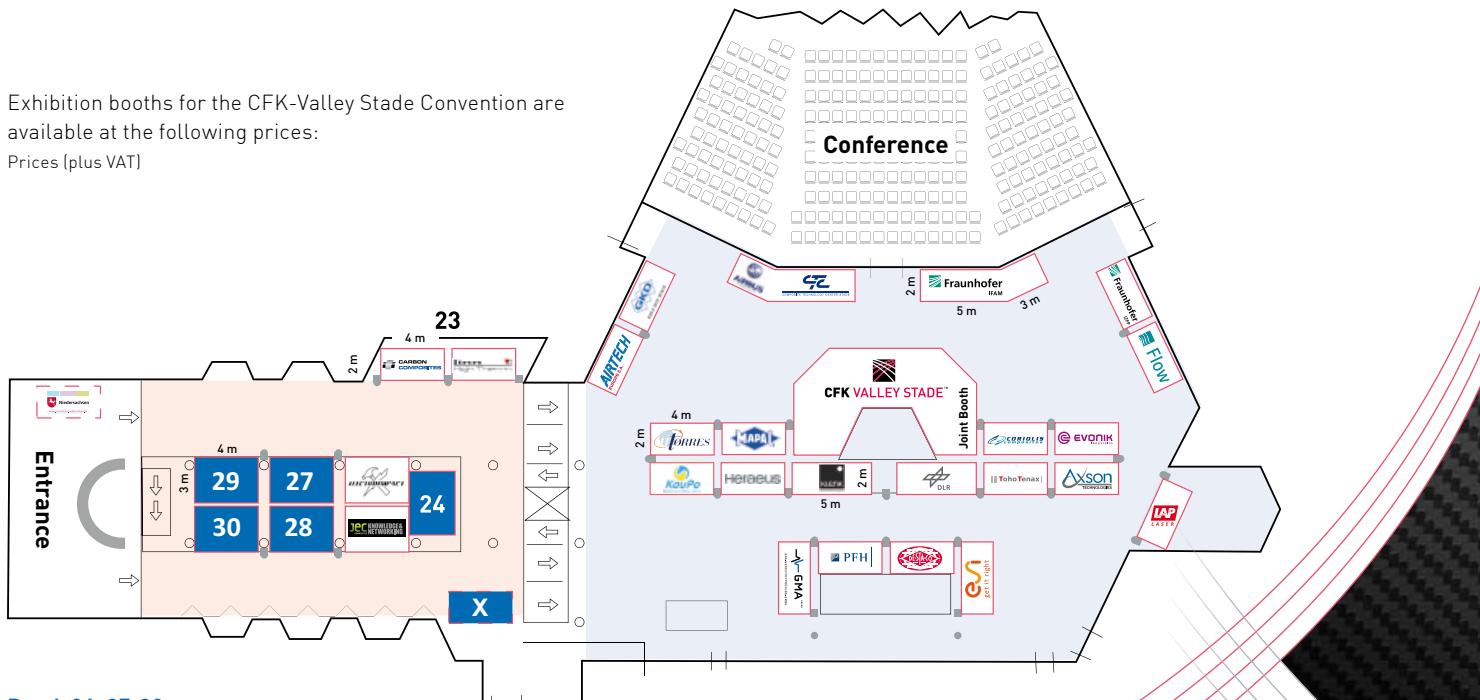
## Space A

- 26 JEC SAS

## Additional Exhibition

- > Hansestadt Stade - Wirtschaftsförderung
- > Innovatives Niedersachsen GmbH

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



**Booth 24, 27-30**  
12 m<sup>2</sup>, max. height 2.30 m  
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3.360 €

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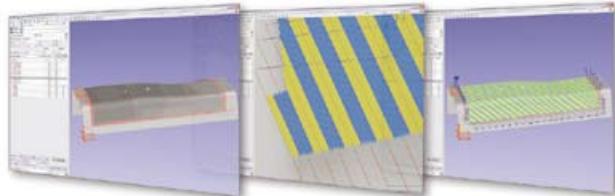
# Last Chance

to reserve an exhibition booth!  
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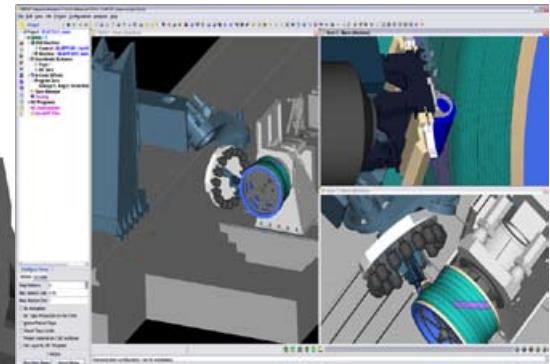
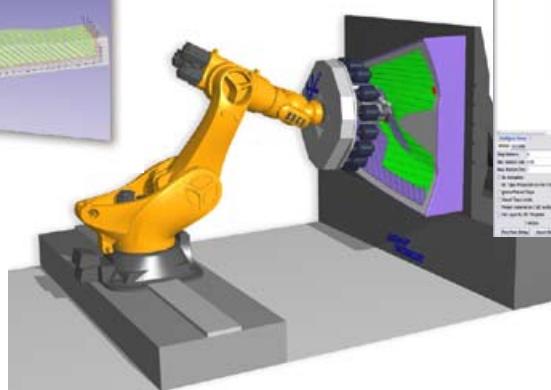
## Composite Applications

### Maschinenunabhängige Programmierung & Simulation von automatisierten Fiber-Placement Anlagen



#### VERICUT Composite Programming (VCP)

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**Booth 2**

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**Booth 3**

**Airbus Operations GmbH/CTC GmbH**  
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**Booth 4**

**Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung IFAM**  
Wiener Straße 12  
28359 Bremen

Phone +49 421 2246-400  
[anne-grete.becker@ifam.fraunhofer.de](mailto:anne-grete.becker@ifam.fraunhofer.de)  
[www.ifam.fraunhofer.de](http://www.ifam.fraunhofer.de)

**Booth 5**

**Fraunhofer-Institut für Zerstörungsfreie Prüfverfahren IZFP**  
Maria-Reiche-Straße 2  
01109 Dresden

Phone +49 351 88815-501  
[sabine.saemisch@izfp-d.fraunhofer.de](mailto:sabine.saemisch@izfp-d.fraunhofer.de)  
[www.izfp-d.fraunhofer.de](http://www.izfp-d.fraunhofer.de)

**Booth 6**

**Flow Europe GmbH**  
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#### Booth 8

##### PRIVATE HOCHSCHULE GÖTTINGEN

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21684 Stade

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#### Booth 9

##### DE-STA-CO Europe GmbH

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61440 Oberursel

Phone +49 6171 705-0  
pmathis@destaco.com  
www.destaco.com



#### Booth 10

##### GMA-Werkstoffprüfung GmbH/ GMA-Engineering GmbH

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21684 Stade

Phone +49 4141 7944-0  
r.vollmerhaus@gma-group.com  
www.gma-group.com

#### Booth 11

##### ESI Engineering System International GmbH

Mergenthalerallee 15-21  
65760 Eschborn

Phone +49 6196 9583-0  
agi@desigmhb.de  
www.esi-group.com

#### Booth 12

##### KauPo Plankenhorn e.K.

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78549 Spaichingen

Phone +49 7424 95842-3  
joerg.plankenhorn@kaupo.de  
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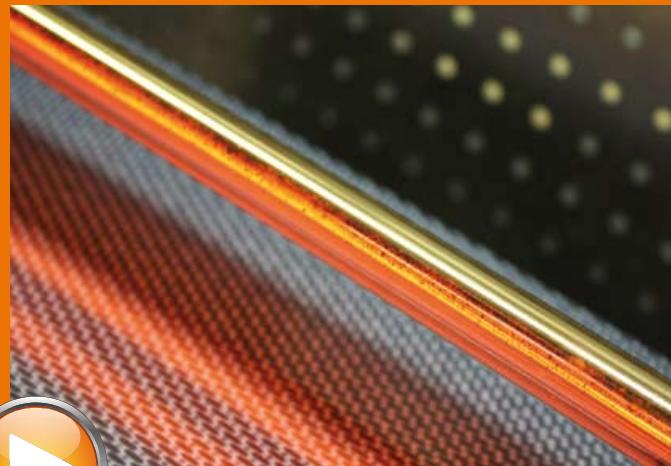


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**Booth 13****Heraeus Noblelight GmbH**

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63801 Kleinostheim

Phone +49 6181 3585-45  
silke.jung@heraeus.com  
[www.heraeus-noblelight.com](http://www.heraeus-noblelight.com)

**Booth 14****Klenk GmbH & Co. KG**

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88481 Balzheim

Phone +49 7347 950-0  
stefanie.dempf@klenk-tools.de  
[www.klenk-tools.de](http://www.klenk-tools.de)

**Booth 15****DLR - Institut für Faserver-**  
**bundleichtbau und Adaptronik**

Lilienthalplatz 7  
38108 Braunschweig

Phone +49 531 295-2301  
jana.hoidis@dlr.de  
[www.dlr.de/fa](http://www.dlr.de/fa)

# Heraeus



# Toho Tenax |

**Booth 16****Toho Tenax Europe GmbH**

Kasinostraße 19-21  
42103 Wuppertal

Phone +49 202 32-2339  
katja.cohrs@tohotenax-eu.com  
[www.tohotenax-eu.com](http://www.tohotenax-eu.com)

**Booth 17****AXSON GmbH**

Waldstraße 72  
63128 Dietzenbach

Phone +49 6074 40711-0  
ballin@axson.de  
[www.axson.com](http://www.axson.com)

**Booth 18****M. Torres Deutschland GmbH**

Wolf-von-Baudissin-Weg 1  
21684 Stade

Phone +49 4141 93994-0  
sabine.ghoniem@mtorres.com  
[www.mtorres.es](http://www.mtorres.es)

**Booth 19****Mapal Präzisions-**  
**werkzeuge****Dr. Kress KG**

Obere Bahnstraße 13  
73431 Aalen

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**BCT.**

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## BOOTH 22 · JOINT BOOTH CFK-VALLEY STADE E.V.

### Acrosoma NV

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B-9160 Lokeren

Phone +32 934043-30  
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### CGTech Deutschland GmbH

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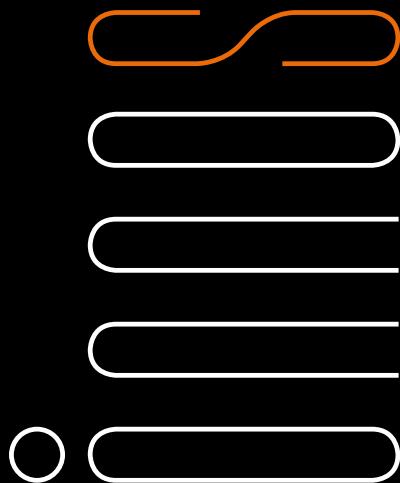
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You will receive an invoice for the participation fee upon receipt of your registration. The number of participants is limited due to organizational reasons. In justified cases, e. g. due to the cancellation of speakers or too few participants, we 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 01 June 2012 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.

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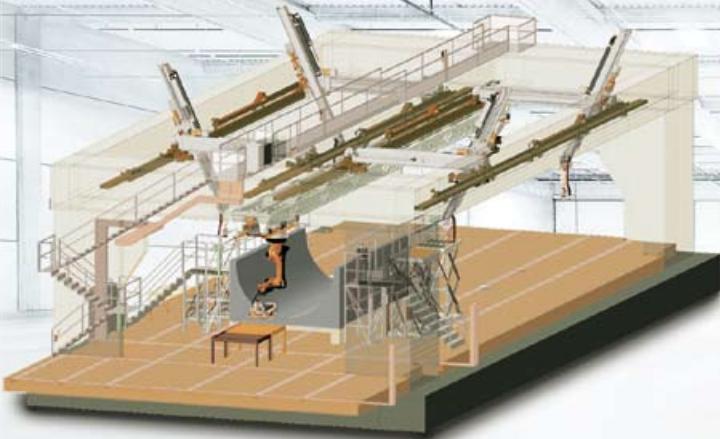
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## Deadline 25 May 2012

**Binding registration** (please check appropriate item):

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