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Europe Enterprise Network Joint Stand



Paris
France

Hall 1
Stand F 31

29 – 31 March 2011



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Founded in 1995 by the Bavarian government in Nuremberg, the "Corporation for Innovation and Knowledge Transfer" conceives and organises cooperation platforms for business and science, in order to initiate innovations. Companies and institutes are brought together thematically focused on regional, national and international levels.

The networking activities concentrate on future oriented technologies and industries, like the automotive supplier industry, electronics, energy technology, biotechnology and chemical industry. Communication channels such as print media, online portals and Congress TV on the internet inform our partners and clients about current developments in technologies and markets.

Within the framework of the cluster initiative, which was started in 2006, Bayern Innovativ GmbH has been commissioned with the management of five clusters.

Meanwhile the networks comprise around 55,000 companies and 500 scientific institutes from over 50 countries.

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Computer Aided Engineering

ANSYS® and a vast competence in FEA – this is what the CADFEM brand stands for in Germany, Austria and Switzerland since 1985. Moreover, through shares and partnerships, CADFEM is a global player in CAE.

CADFEM offers a complete portfolio of leading software tools for numerical simulations (e. g. ANSYS, ESAComp), including seminars, support, expert advice, and CAE consulting services.

ANSYS® Composite PrepPost™

ANSYS Composite PrepPost is a powerful ANSYS and ANSYS® Workbench™ integrated software package designed for efficient composites engineering. ANSYS Composite PrepPost integrates leading composite-specific technology, state-of-the-art pre- and postprocessing and simulation capabilities of ANSYS.

- Unique Material Definition Functionality
- Oriented Element-Set Concept
- Shell and Solid-Based Modeling
- Draping and Flat-Wrap Functionality
- Unique Composite Failure Analysis Capabilities
- Ply-Book Generation

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The founding of Christian Karl Siebenwurst Modellfabrik und Formenbau GmbH & Co. KG in 1897 was the beginning of the Siebenwurst companies.

Nearly 600 employees generate a total turnover of more than € 60 million at the company's locations in Dietfurt, Zwickau, Eisenach and Stein.

Over the last few years, the Siebenwurst companies have developed from being purely a model and mould construction company to being an international high-tech company for the most complicated tools in various technologies. Siebenwurst not only supplies its customers with tools and moulds, the company also accompanies the complete product creation process, from development and prototypes to series production. In addition, Siebenwurst offers project support via a unique service concept – the "Tool Doctors" tool and mould service unit.

Innovation is an important topic at Siebenwurst. Siebenwurst is a pioneer on the market, especially in lightweight construction, and the company invests in fundamental research at institutes and universities.

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Cluster New Materials – Technologies for tomorrow's innovations

The Cluster New Materials, managed by Bayern Innovativ in Nuremberg, is the Bavarian networking platform for innovations with new materials. We aim at strengthening the interconnections between Bavarian key players in industry and sciences – from materials development and processing up to the application of new materials in the manufacturing of components.

Therefore a Bavarian-wide constantly updated and pro-actively organized platform for information and communication was established in close cooperation with regional material-focused networks, other cluster platforms. Ranging from lightweight construction metals via fiber reinforced materials to technical textiles, Bavarian communities are formed.

With cluster-meetings at companies or institutes and cluster-workshops dealing with specific topics, the Cluster New Materials brings together decision makers and key members of the materials business and enables purposeful exchange of information and experiences. By way of this dynamic dialog of all participants, co-operative projects are formed, which are supported and accompanied by the management of the Cluster New Materials.

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COIA GmbH was established in 1984 by its owner and General Manager Dr. Shubbar. Since 1990 our activity focus is set on the eco-friendly UV-curing Technology by offering chemical as well as technical expertise in one hand. Having started with colouring and processing of Optical Fibres, we produce since 1995 also GFRP Rods with High Speed UV-Pultrusion Systems, designed and manufactured by COIA.

Our High Speed UV-GFRP Lines Made in Germany cover 3 main types/diameter ranges:

1. CO-SM500 for prod. of 0.25 - 0.50 mm GFRP
2. CO-SM1000 for prod. of 0.25 - 1.00 mm GFRP
3. CO-SM3500 for prod. of 1.00 - 3.00 mm GFRP

GFRP-Ribbon manufacturing is optional available.

COIA sold the first High Speed Double Stream UV-Pultrusion Line to Russia in 2009, producing GFRP Rods of 1.00 mm diam. @ up to 120 m/min.

COIA offers also the UV-curable resins for the GFRP processing "Galaxy® CFRP" as well as a wide range of further High Performance UV-curable materials for Colouring, Up-Coating and Bonding.

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The Enterprise Europe Network of the European Commission, covering more than 600 organisations in the 27 member states and beyond, is Europe's biggest support network and central contact point for enterprises and research institutes concerning the development of their innovation potential.

As a partner of the Enterprise Europe Network, the EU Cooperation Unit of Bayern Innovativ helps small and medium sized enterprises (SME) market their technologies and find partners for technological problems.

The service portfolio for initiating contacts and cooperations comprises amongst others:

- Design and organisation of technology brokerage events, company missions, joint fair stands, work shops, info days
- Technology watch via the Technology database of the Enterprise Europe Network
- Partner search for EU research programmes
- Information and consultancy on the EU Seventh Framework Programme (FP7), especially the EU programme "Research for SME" in Bavaria

EU-Kooperationsbüro

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Innovative rubber and silicone in the world of FRPs

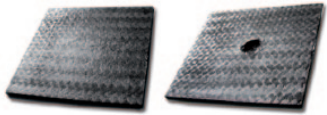
Kraiburg developed a new generation of rubber compounds for the **direct bonding** between rubber and FRPs.

- Direct bonding without any adhesives and in the same process step
- Can be processed with autoclave, press and resin infusion processes (RTM, VAP)

Key Benefits:



CFRP – rubber-metal hybrid



Five times of energy can be absorbed by integration of rubber

- Improves splintering and crash behaviour
- Integration in a sandwich lay-up, vibration dampening will be improved
- Integration of a non-slip surface
- Integration of flexible functions

Additionally KRAIBURG offers new silicone compounds for mould making.

Key-Benefits:

- Reusable
- Reparable
- Direct integration of pressure parts
- Heatable

Gummiwerk KRAIBURG GmbH & Co. KG

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Winner of JEC Award 2011: Jacob Plastics GmbH – FIT Hybrid technology

Jacob Plastics specializes in engineering, simulation, and manufacturing of ultra-lightweight solutions in high-performance fibre reinforced composite and sandwich materials for use in automotive, aerospace and sports applications. Based on our extensive knowledge we develop and manufacture components and modules combining material lightweight construction and structural lightweight construction.

Our innovative processes combine moulding, forming, and joining operations in one single process step. Those innovations offer tremendous economic potentials. Thanks to the high-level functional integration those processes offer, we are able to fulfill various requirements, whether on the end users side (e. g. more attractive designs and additional comfort) or the manufacturers side (e. g. reduced costs), by reducing the number of assembled components. A further merit is the economical production of new products with unique features.

Jacob Plastics Group

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“We're passionate about narrow textiles.”

It's OK to be this emotional when you've been in the textiles business for a century and some of your employees have decades of expertise.

This commitment, plus a good measure of inventiveness, diligence and state-of-the-art German production technology, are what make our products and services so special.

Today, technical narrow textiles are an indispensable aspect of many innovative products. Our comprehensive range of standard products includes articles that satisfy the majority of our customers' textile requirements. We also develop custom solutions for all kinds of sophisticated applications. Talk to us about your special requirements.

Langendorf Textil GmbH & Co. KG

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Metawell

metal sandwich technology

Metawell® is a patented lightweight panel out of aluminium. Its ingeniously simple structure (it reminds that of corrugated cardboard) makes Metawell® a very light but rigid sandwich panel with trendsetting characteristics.

Two cover sheets are connected to the corrugated core material using a special hot-melt adhesive in a continuous process. The core material itself is very rigid in one direction through the geometry, taken from nature (like a shell). With just one coversheet glued to the corrugation an easily formable material emerges which is called "Aluflex". It can be perfectly used for curved elements and backside reinforcements.

Since the pre-treatment is already on the coils which are used for cover sheets and corrugation a good corrosion protection is also available for the core material. 20 years experience with the product justify the worldwide use of Metawell® in series and single projects in the areas transport (automotive, trains, shipbuilding), construction (facade systems, radiant ceilings, interiors) and industry (housings, platforms). The company Metawell GmbH does not only manufacture the sandwich panel Metawell® but also develops and produces solutions of consequent light construction in close cooperation with its customers.

Metawell GmbH metal sandwich technology

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eCarTec: Join the eMobility Revolution!

eCarTec Paris 2011 – 2nd Internationale eCarTec Conference & Exhibition for Electric Mobility – will take place under the auspices of Gérard Voisin, member of parliament of the Assemblée Nationale, in Paris (Pullmann Paris Rive Gauche) from March 30 to March 31, 2011. Over 30 international exhibitors will present their innovations on 1,500 square meters of exhibition space. Conference speeches and the associated exhibition offer an ideal opportunity for identifying synergies and cooperation potentials and for promoting the future of electric mobility. 25 speakers from companies such as BMW (E-Mini), EDF, Toyota, Dow Kokam, ESA, E.ON, AVERE France or Groupe Deret will build a bridge between different themes such as storage, energy & infrastructure and new business models and will present latest findings from science and research.

This event will also provide detailed insights into latest market expectations and industrial requirements. Over 30 exhibitors such as Siemens, Bal Seal, ESG, HaWi or Epyon will use their exhibits to provide a better understanding of the results from the lectures.

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SILTEX makes all fibres come together ...

... as one of Europe's largest manufacturers of braided goods and highly efficient supplier of insulation and protective sleeves. Our high flexibility, combined with most modern materials and large machinery enables us to develop individually a product co-ordinated with you. Your big advantage of our braids are the serviceability in most different ranges as reinforcement material for production of light and high debitable high-tech-composites. Also for subsequent treatment of electrical and thermal insulation. For sure SILTEX is certificated in accordance to DIN EN ISO 9001 ed. 12/2000.

Fields of Application:

- Vehicle construction
 - Plane model construction
 - Aerospace industry
 - Mechanical and apparatus engineering
 - Medical engineering
 - Sports equipment
- Braided sleeves and tapes as reinforcing material for production of lightweight heavy-duty high-tech composites

SILTEX Flecht- und Isoliertechnologie Holzmüller GmbH & Co. KG

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With the ISIS shearography systems by Steinbichler Optotechnik, in-service damage to components made of composite materials can be detected very quickly and unambiguously. They allow the timely detection of material defects, which contribute to the weakening of the component, before a major failure of the component occurs. The necessary corrective action can thus be taken early on, increasing process efficiency and saving costs.

The mobile ISIS systems enable the fast and easy testing of various composite components, such as sandwich structures with honeycomb or foam core, Glare™, aluminium composite and other compound materials. Developed as a complete system solution, ISISmobile 3010/3100 provides unique system features for non-destructive material testing. Equipped with a vacuum unit, the handy measuring head permits orientation in nearly any desired way and attaches to a vast variety of component surfaces.

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UNITED INITIATORS
driving your success

United Initiators GmbH & Co. KG is located in Pullach near Munich and started the production of active oxygen chemicals already back in 1911. Today United Initiators is an independent company with its headquarter in Pullach and locations in the USA, Asia and Australia.

The United Initiators Group is one of the largest global producers of organic peroxides and persulfates. These products are mainly used in the fields of Polymer Manufacturing and Polymer Processing. With over 500 employees worldwide United Initiators provides standards as well as custom-designed products and solutions for various industries.

United Initiators operates their own applied research facilities in Pullach since the early 60's. Therefore, the technical service is based on decades of experience and enables customers of United Initiators to improve their own production performance with regards to safety, quality and individual comparative testing of tailor-made formulations.

With the introduction of the phthalate-free MEKP'S, sold under the CUROX® brand, United Initiators has accomplished the complete transition of all ketone peroxides to both phthalate-free and aromatics-free formulations and thus contributes to the ever growing interest of the Composites industry in user- and environment-friendly products.

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Our brand “Polymer Engineering” stands for scientific and practical research and teaching in the field of polymer materials under the guidance of Prof. Dr.-Ing. Altstädt. The main research lies on the material, the construction and the production, with the aim to develop high performance plastic products. The focus of the research is the systematic analysis and use of causal relationships between processing, structure and properties of polymer materials. This allows a strategic approach to the development of innovative products with the help of modern polymer materials.

Our group combines physical and chemical fundamental knowledge to bring innovative smart materials into real world applications.

A number of modern industry-relevant manufacturing methods are available. The characterization of the large spectrum of properties belongs to our daily work.

By building a bridge between pure science and industrial needs, our group is proud to be a reliable collaborator on the development of the new generation of composite materials with our industrial partners.

Universität Bayreuth

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Precision and individuality, maximum functionality, intelligent material combinations and research into new fields of application: V. Fraas – Solutions in Textile stands for innovative technical textiles at the highest level in the field of knitting. This new entrepreneurial venture at V. Fraas GmbH occupies a unique position especially with 3D biaxle knits.

In close cooperation with partners in industry and science V. Fraas – Solutions in Textile has developed among other things 3D biaxle knit structures.

V. Fraas envisions one field of application for these 3D structures in a variety of matrices. A very significant rationalization potential can be realized in industrial manufacturing by exactly positioning the textile surfaces in the third dimension.

The result of our development is SITgrid, a new type of technical textile based on an innovative knitting process. Two biaxle grid structures are connected by a pole fibre of any material into a spatial structure.

V. FRAAS GmbH

Solutions in Textile

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Today's knowledge for tomorrow's innovation