

8th AACHEN-DRESDEN INTERNATIONAL TEXTILE CONFERENCE 2014, November 27-28, 2014 in Dresden

We cordially invite you to take part in the Aachen-Dresden International Textile Conference on the 27th and 28th of November 2014, in the International Congress Center in Dresden.

Prof. Dr. Chokri Cherif
for the organisers of the Dresden area

Prof. Dr. Martin Möller
for the organisers of the Aachen area

With this year's partner country South Korea, we continue our tradition of offering you a platform for new research co-operations and networks beyond Germany by involving annually alternating partner countries.

TOPICS:

- Composites
- Protective Textiles
- Textile Construction with Membranes and Textile-reinforced Concrete
- Chemistry for Composites, Protective Textiles, and Textile Construction
- Transfer Session „From Idea to Practice“
- Saxomax - Textile Innovations

PLENARY LECTURES:

Bernd Mlekusch; AUDI AG, Ingolstadt. **Lightweight design for the car body – a key factor to turn the weight spiral**

Jan Knippers; Institut für Tragkonstruktionen und Konstruktives Entwerfen, Universität Stuttgart, **Biomimetic design and construction principles for complex fiber-based structures in architecture**

Chul Hwan Moon; MOTIE, Ministry of Trade, Industry and Energy, Sejong/KR, **The overview and future challenges in Korean textile industry**

Vladimir Dyakonov; Bayerisches Zentrum für Angewandte Energieforschung e.V. (ZAE Bayern), Würzburg, **Smart skins: Energy efficient solutions for textile architecture**

LECTURES, e.g., from:

Aalto University; ALWIT; Arizona State University; CCTT TEC-KNIT; CHT R. Beitlich; Coatema; Complex Fiber Structures; CTC; Continental; Daimler; DLR; DIENES; DSM; DYETEC; DYNAMORE; Empa; ENSAIT; Freudenberg; Ghent University; Hong Kong Polytechnic University; Inha University; KARL MAYER LIBA; KITECH; KOLON; knittec Kobleder; Kyungpook National University; DORNIER; MAGEBA; Herbert Meyer; Nähmaschinenfabrik Emil Stutznäcker; Newcastle University; ontec; PMB; Q-Lab; SAERTEX; SGL Carbon; Stäubli; STUDIO ANDREAS DERKUM; TU Liberec; Toho Tenax; Tokyo Institute of Technology; Trützschler; TU München; Universität Stuttgart; University of Boras; wfk; Zschimmer & Schwarz;

Selected Lectures

Peter Wick; Empa, St. Gallen/CH, **Nanosafety research a new discipline for safe and sustainable nano-applications illustrated for textile industry**

Patrick Casper, Christina Maggakis-Kelemen; wfk - Cleaning Technology Institute e.V., Krefeld, **Renewable textile finishing in the context of textile reprocessing**

Michael Hummel¹, Anne Michud¹, Marjaana Tantt², Shirin Asaadi¹, Yibo Ma¹, Herbert Sixta¹; ¹Department of Forest Product Technology, School of Chemical, Technology, Aalto University, Aalto/FI; ²Department of Design, School of Arts, Design and Architecture, Aalto University, Aalto/FI, **Ioncell-F: High tenacity textile cellulose fibers from ionic liquid Solutions**

Hidetoshi Matsumoto¹, Shinji Imaizumi¹, Yuichi Konosu¹, Shohei Masuda¹, Minoru Ashizawa¹, Akihiko Tanioka¹, Wei Lu², James M. Tour²; ¹Tokyo Institute of Technology, Tokyo/JP; ²Rice University, Houston/US, **Enhancement of electrical and mechanical properties of electrospun composite nanofiber yarns containing oriented graphene nanoribbons**

Niclas Wiegand¹, Edith Mäder^{1, 2}; ¹IPF Dresden e.V.; ²Institute of Materials Science, TU Dresden, **Processing and performance of SpinCOM yarns and their composites**

Blanka Tomkova¹, Martin Müller¹, Jan Gregr²; ¹Dept. of Material Engineering, Technical University of Liberec/CZ, ²Dept. of Chemistry, Technical University of Liberec/CZ, **C/C composites densified by ground carbon nanoparticles from recycled carbon fibers - changes in mechanical and thermal properties**

Steffen Müller Probandt, Andreas Desch, DIENES Apparatebau GmbH, Mühlheim, **Systems for the development of carbon fibers based on PAN and Lignin**

Johannes Taesler¹, Wolfgang Trümper² et al.; ¹Knittec Kobleder GmbH, Bad Füssing; ²ITM, TU Dresden, **Development of a technology enabling highly productive manufacturing of multilayer weft knitted reinforcing structures for lightweight applications**

Charlotte Eisenhauer¹, Benedikt Borchert² et al.; ¹TU München; ²CCTT TEC-KNIT GmbH, München, **Advancements in the development and testing of highly-drapeable tailored textiles**

Marcus O. Weber¹, Thorsten Bache² et al.; ¹Hochschule Niederrhein, Fachbereich Textil- und Bekleidungstechnik Mönchengladbach; ²Bache Innovative, Rheinberg, **Stab resistant knitted clothing**

Jin-Seok Bae¹, Sung-Hoon Kim¹, Do-Hyun Lee²; ¹Kyungpook National University, Daegu/KR, ²DYETEC, Korea Dyeing Technology Center, Daegu/KR, **Synthesis and application of colorimetric nanofiber Chemosensor**

Evelyn Lempa¹, Carsten Graßmann¹, Kristin Topp¹, Maike Rabe¹, Raimund Lintl², Peter Siemens³; ¹Hochschule Niederrhein, Mönchengladbach, ²Kirson GmbH, Neustadt/Donau, ³Verseidag-Indutex GmbH, Krefeld, **Electrically conductive functions for innovative construction textiles**

Angela Geu, Nora Reiz, Oliver Richter, Axel Ritter; Zschimmer & Schwarz Mohsdorf GmbH & Co KG, Burgstädt, **High permanent flame-resistant fluorocarbon finish for protective clothes – a quadrature of the circle?**

Nandan Khokar; School of Textiles University of Borås/SE, **Development of innovative 2D and 3D fabric-forming processes for manufacturing composite reinforcements**

Thomas Kolbusch; Coatema Coating Machinery GmbH, Dormagen, **Innovative equipment concepts for coating of composite products with thermosetting and thermoplastic adhesives**

Jinlian Hu, Jing Lu, Bipin Kumar; Institute of Textiles and Clothing, Hong Kong Polytechnic University, Hung Hom/HK, **Shape memory polymers and fibers for protective textiles**

Siegfried Assmann¹, Susanne Aumann², Andrea Brücken², Andrea Ehrmann², Alexander Büsgen², Dirk Unsenos³; ¹ALWIT GmbH, Emmerich-Elten, ²HS Niederrhein, FB Textil- und Bekleidungstechnik Mönchengladbach, ³SIS IC GmbH, Wesel, **Intelligent protective clothing for firefighters on duty**

Jan Martin, Stephan Fichtner, Ulrike Berger; KARL MAYER LIBA Textilmaschinenfabrik GmbH, Naila, **Multiaxial technology – flexible modular concept with high innovation potential for composite structures**

Paul Matthäi, Iris Käppler; Chokri Cherif, ITM, TU Dresden, **Innovative stich free non crimp fabrics – properties and potential**

Oliver Döbrich, Georg Bardl, Chokri Cherif; ITM, TU Dresden, **Multi-scale modelling of reinforcement structures with adjustable drapeability**

Marcel Hofmann, Bernd Gulich; STFI e.V., Chemnitz, **Fiber based nonwovens in light weight construction – a transferable concept for the recycling of carbon waste material**

Frank Schladitz, Matthias Lieboldt, Dominik Schlüter, Manfred Curbach; Institut für Massivbau, TU Dresden, **Carbon concrete composite – concrete, carbon and the blue ocean**

Andreas Derkum; STUDIO ANDREAS DERKUM, Frankfurt/Main, **Behaving fabrics and self-supporting structures in architecture**