

Stuttgart, November 30 – December 1, 2017

for experts from the fields of
**Materials, Chemistry, Finishing & Functionalization,
and Machines, Processes & Composites**

with plenary sessions and special symposia in the areas of

- **Development and production of high performance fibres and yarns**
 - Potential of chemical and physical fibre modifications for the fibre industry
 - Market opportunities through new fibre types, processes and equipment (polymer synthesis, primary spinning, ...)
 - Secondary spinning – new approaches for production
 - New impulses from the clothing industry, engineering and research for the development of sustainable fibres and yarns (bio-based fibres, new recycling strategies)
 - Fibre and technology developments for the optimization of the carbon fibre production
 - New developments and future trends of (high performance) fibre types (e.g. carbon fibres, polyaromatic fibres, ceramic fibres etc.)

- **Development and production of 3D system-integrated fibre compounds for automotive, construction and architecture**
 - Insight into new advanced materials – simulation and testing systems
 - Potentials of polymer matrix materials and functionalization
 - Bionic structures – new developments in building component construction
 - Shaped fibre compounds – new approaches and developments
 - Technologies for applications in the automotive industry and construction
 - New developments in process technology

- **Medical textiles / Medical technologies**
 - Drug delivery: Functionalization of fibre-based medical devices for the specific support of healing processes
 - New polymeric biomaterials for implantation and regenerative medicine
 - Resorbable polymeric implants for the support of regenerative processes
 - Monitoring and control of healing processes with sensory and actuator medical devices
 - Textile-based solutions in personalized medicine for support in therapy
 - Fibre-based cell scaffolds for tissue engineering
 - Nonwovens for wound treatment and hygiene

- **Transfer Session "From Idea to Practice"**

Presentation of innovations (e.g. products, technologies, processes) transferred into the industry from research co-operations, especially by IGF/ZIM

Contact 2017:

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