

5TH WORLD CONFERENCE ON 3D FABRICS AND THEIR APPLICATIONS

December 16-17, 2013

Venue: Indian Institute of Technology (IIT) Delhi, India



Organized by



Department of Textile Technology
Indian Institute of Technology Delhi

and



TexEng Software Ltd. Manchester, UK

In Association with



The University of Manchester

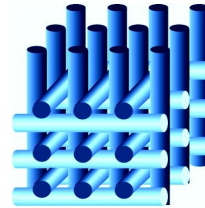
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The Textile Institute and Fibre Society



ABOUT THE CONFERENCE



This series of conferences started in Manchester UK in 2008 and was followed by conferences in Greenville, South Carolina, USA in 2009, Wuhan, China in 2011, and Aachen, Germany in 2012. We are pleased to announce that the Fifth conference in textile engineering education and research in India with a strong activity in 3D fabrics. The adventures in the textile technology for 3D fabrics are diverse. Solid 3D woven fabrics, which can be made on commercial machinery either as flat panels or 3D shapes, are of importance in composites. They give a potential for major reductions in aircraft weight and have significant applications in military hardware. The stimulus to development given by these uses opens up possibilities in automotive, civil construction, medical and many other fields. High tech modern constructions are now using 3D textile structures and bridges. Hollow woven fabrics with multiple voids can be used in protective composites. Tubular forms can be multiply branched. For some forms, braiding is an alternative to weaving. Advances in knitting mean that whole garments can be produced, so that stitching together of separate pieces is eliminated; similar developments are taking place in weaving. This technology can be adopted to make complex 3D shapes for technical uses. 3D shells can be made by nonwoven technology.

Conference Co-Chairs

Professor John W. S. Hearle & Professor Bijoya Kumar Behera

SCOPE OF CONFERENCE

3D Fabrics:

Woven-Braided-Knitted-Nonwoven

Multilayer flat sheet-3D shapes solids

Hollow fabrics-3D shells-Multiple connections

Engineering

Design, Machine control, Manufacture, Structure and geometry modeling, Mechanical properties, Other performance features, Testing, Techno-economics etc.

Applications

Aerospace, Automotives, Marine, Military, Civil construction, Medical and health, Protection, Smart materials, Garments etc.

ABSTRACT SUBMISSION

The organizers invite authors to submit one-page abstract for each paper that they wish to be considered for inclusion in the oral and/or poster program for the conference. The abstract should contain sufficient information for a valid decision to be made on the merits of the paper and its relevance to the aims of the conference. Author should indicate whether they prefer an oral or a poster presentation. Closing date for submissions intended for oral presentations in July 31, 2013. Poster abstracts can be considered at a later date.

Please visit the website: www.texeng.co.uk for more details.

REGISTRATION

General: US\$ 400

Speaker/Posters: US\$ 300

Students: US\$200

Indian based Academics: US\$100

Indian Based Students: US\$50

ACCOMMODATION

The organizers have reserved some rooms in nearby hotels which can be booked on prior request.

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