



## Overview

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- Sparking a Revolution in Sustainable Materials

## European Strengths in Resource Efficiency

As we prepare for the opening of the 2014 edition of ITMA ASIA + CITME we can reflect on the efforts being made by European textile-machinery manufacturers to achieve ever greater levels of eco-efficiency in the technology they deliver.

Concern to protect the environment and the health of the citizen are no longer a preoccupation solely of the West. Some of the unfortunate, negative effects of rapid development are also afflicting the newly industrialised countries of Asia and many are now placing environmental sustainability high on their agenda. As a matter of urgent policy, their governments are encouraging investment in technology and processes that are both resource-efficient and non-polluting. China, the host nation of ITMA Asia + CITME, is a prime example, with its increasingly strict policing of pollution laws and determination to upgrade the whole of its textile industry.

In Shanghai we will experience the widest possible showcase of solutions from the best of the world's textile machinery companies,

for whom sustainability and economy are core concepts in product development. Most of the world has now accepted the need to reduce atmospheric emissions of CO<sub>2</sub> and to cease the thoughtless chemical pollution of our waterways and oceans.

But for the textile manufacturer the incentive to upgrade inefficient processes is not just ethical or humanitarian. Reducing the amount of energy or water used, or cutting waste in materials by enhancing precision, all makes perfect economic sense. That is where Europe's machinery manufacturers score highly and why they will be busy all week in Shanghai.



Charles Beauduin,  
President, CEMATEX  
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## ITMA Sponsors Future Materials Awards

ITMA has signalled its commitment to the world of technical textiles by becoming the Headline Sponsor of the Future Materials Awards, which will take place in November 2014, in Dresden, Germany.

ITMA joins Invista's Cordura brand and speciality chemical supplier Archroma, which are Platinum Sponsors of the event.

A gala dinner and awards ceremony to reward innovation in the technical-textiles industry will be held on Wednesday, November 26, 2014 – the day before the start of the 8th Aachen-Dresden International Textile Conference.

World Textile Information Network, publisher of international technical-textiles magazine Future Materials, launched the awards to recognise success in textile innovation and celebrate the essential work of the many businesses which support the industry.

"The technical-textile and nonwovens-materials sector is on a growth trajectory, led mainly by end-user industries' demands for more applications and innovation," said Charles Beauduin, president of CEMATEX, the owner of the ITMA exhibition. "We are delighted to be involved with the Future Materials Awards, which will honour the businesses and individuals that are shaping this sector."

The ITMA Future Materials Awards are open to all the end-use sectors for technical textiles as well as materials experts, product developers and designers. They will celebrate winners in 21 categories, including the best innovations in sportswear, protective textiles, industrial textiles and medical textiles. There will also be awards for groundbreaking partnership development, best start-up company and a lifetime

achievement award.

A panel of renowned industry experts will decide the winners, including: Linda Keppinger, global materials director at Nike; Dr Jean-Pierre Haug, secretary general of Oeko-Tex; Dr Peter Dinsdale, world president of the Textile Institute; Michael Sieber, research textile engineer at the US Army Natick Soldier Systems Center; Siegfried Winkelbeiner, CEO of Schoeller Textil; Thomas White, textile innovation director at Under Armour; and Lutz Walter, head of R&D and innovation of Euratex. Entries for the Awards are now open – visit:

[www.futurematerialsawards.com](http://www.futurematerialsawards.com).

The deadline for entries is Tuesday, July 15, 2014. Finalists will be announced in mid-September. Winners will be announced at the awards dinner in Dresden on Wednesday, November 26, 2014.

## Denim Leaders Focus on Bangladesh

Five Italian denim-industry leaders visited Bangladesh to preach the technical and environmental excellence of their products under the title: Italian DNA – Creativity and Innovation, the Italian way to Sustainability.

Representing various areas of the value chain, the five were: denim fabric producers and processors Candiani, ITV Denim and Okinawa; finishing-machinery specialist Tonello; and finishing-chemicals company Nearchemica.

Running in Dhaka from the March 24-28, the project was developed in cooperation with the innovative garment makers in Asia: Pacific Jeans and M&J Group. It began with a workshop for international buyers at the Westin Hotel in Dhaka and continued a series of business-to-business meetings

throughout the following days.

After the workshop the Italian DNA team hosted a dinner, during which it presented a denim collection – the result of a collaboration between all five companies. The collection has been designed to illustrate the partners' latest technologies and materials in terms of their sustainability and focuses on the trends of the upcoming seasons.

The organisers of the event say the importance of Bangladesh as a significant production country for the international fashion industry is growing every day. The Italian companies that decided to promote themselves and their core values have been working with the most important and innovative garment makers of the country for many years.



## Fine Tuning Productivity

### Groz-Beckert Hall E5 B1

Needle specialist Groz-Beckert has developed an 'app' for circular knitters who wish to calculate the potential of their own operations for productivity and resource savings. 'Fine tune your productivity' shows examples of how big the positive effects might be of minimal changes in the five key parameters in the knitting process – machine speed, efficiency, needle life-time and breakage rate, and energy consumption. Among an extensive range of products at ITMA ASIA + CITME, Groz-Beckert will show the EcoStar felting needle, for what it says is the best possible surface quality of flat needled products. EcoStar is said to offer users longer service life, reduced energy consumption and a fibre transport requiring a lower penetration force for the same efficiency compared with standard needles.

## New Generation Shrinking Range

### Monforts Hall W1 A01

A cut in water consumption of 40% compared with conventional equipment is a feature of Monforts' new Monfortex 8000 shrinking range. The completely redesigned machine is said to be built on the experience of making Sanfor machines for the past few decades and to incorporate identified customer requirements in terms of performance, technology and service. The system includes improved residual shrinkage, with lower rubber-blanket-contact pressure and longer blanket life. Grinding of the rubber blanket is

fully automatic and blanket change can be accomplished in a single shift. Monforts is also showing its latest Montex 6500 stenter frame range, with Qualitex 750 software, which allows long-distance technical support. The TwinAir system and heat-recovery system are equipped to further reduce energy consumption and deliver superior production capacity, says Monforts. Optional nozzle types give wide adaptability and conform to the concept of energy conservation and consumption reduction.

## Garment Finishing Effects

### Tonello Hall E7 C09

Tonello's latest introduction is the garment-finishing technology, Kit Batik 2.0, which is claimed to save 90% of water and 80% of chemical use compared with other similar systems.

The new equipment achieves a range of special effects, including staining, tie-dyeing and fading with strong contrasts on the seams amongst others, says Tonello. The Kit Batik is compatible with all Tonello washing and dyeing machines, is fully automatic and requires no special preparations. The technology can be used to apply eco-softeners, resins and anti-wrinkle products to fabrics, denims and ready-to-dye garments.

## Aerodynamic High Temperature Piece Dyeing

### Then Hall W1 A01

A further reduction in energy consumption has been designed into the latest generation of THEN AIRFLOW piece-dyeing technology, the SYNERGY 8.

According to Then, every tube now has an individual frequency-controlled blower

with less installed power. All the other advantages of the THEN AIRFLOW SYNERGY series remain unchanged, which leads to shorter cycling times and substantial savings in water as well as high reproducibility and smooth fabric guiding. The

model extends up to 12 tubes with individual control, suitable for various kinds of fabrics and with better flexibility, quality and ergonomics.

In 2013, it won the Hong Kong Awards for Industries: Machinery and Machine Tools Design Award.