

who walks into a spinning plant, wherein Neuenhauser has had a hand in designing, is likely to believe to be in some kind of a science fiction film. Robots carry out an enormous variety of tasks autonomously in cavernous production halls almost unpopulated by humans. Even loading and unloading the machines, transporting and packing the bobbins are executed without human intervention."

More and more spinning units are switching to the use of robots to do burdensome tasks formerly carried out by humans, especially handling, transport and packaging of bulky natural, chemical and carbon fibre bobbins, according to Languis. The company provides solutions to spinning mills all over the world and 80 per cent of its output is exported. Its primary markets are India, China, Turkey and the United States of America. It recently provided automation solutions involving robotics to the Welspun manufacturing facility located in Anjar, India, which is its largest order till date for roving bobbin and package transport systems with palletisation. Welspun wanted a completely automated, contactless material transport system for its unit.

## Teijin Frontier to debut at Premiere Vision Paris with Deltapeak polyester fabric

Teijin Frontier, the Teijin Group's fibre-product converting company, participated in Première Vision Paris, a major event for global fashion industry professionals that takes place in Paris. One of the highlights included Deltapeak, a next-generation polyester fabric developed to integrate physicality, functionality and quality to a high degree.

In addition to softness, durability and elasticity, it is said to offer ultraviolet protection and anti-transparency, as well as snag resistance due to its dense, flat-knit surface, making it an ideal material for use by sports apparel manufacturers. The booth will present a wide variety of Deltapeak fabrics for fashion use, including knit fabric with textile-like appearance.

Teijin Frontier featured fabrics made from its next-generation materials Solutex and Deltapeak, including a selected portfolio for Autumn/Winter 2016-17 that was developed using processing technologies from renowned fabric-producing districts in Japan.

Solutex

Solutex polytrimethylene terephthalate fibre, which is exceptionally soft, highly stretchable, shape-retaining and durable, is producing deep, vivid colours, according to the manufacturer.

They presented a wide range of hybrid products that blend Solutex with other natural and synthetic fibres to add new

textures and functions, making it appealing as an all-purpose fashion material. Since 37% of its components are bio-derived, Solutex is also an environmentally friendly choice.

## H&M Launches Global Change Award To Further Textile Recycling

On August, H&M Conscious Foundation, a nonprofit global foundation, announced the launch of its Global Change Award for textile recycling innovation. It's the first year of the award which will reward five winners, chosen by a jury, with a shared grant of \$1.16 million.

H&M creates fast fashion and sells it globally. It's also a company that strives to reduce its environmental impact. The Global Change Award is one way that the retailer is addressing the struggle to meet its goal of incorporating more recycled materials into its designs. The winners will also have access to an innovation accelerator, in collaboration with Accenture and KTH Royal Institute of Technology in Stockholm, Sweden. The winners will get support and knowledge from the innovation accelerator, beginning with an innovation boot camp by KTH and then guidance from Accenture. The winners will also be part of a one-year training and coaching program.

## An Startup Takes Old Clothes And Makes Completely New Thread From Them

The need for new clothes leaves a lot of old clothes behind, creating a huge mountain of fabric waste. Americans throw out 13.1 million tons of textiles each year, of which 11 million tons ends up in landfills.

Seattle startup Evmu offers an alternative: recycling that takes old clothing and creates completely new yarn for new clothing. Its process uses solvent to turn cottons and other fabrics into pulp which it then extrudes through a fine filter, a bit like how water is pushed out through a shower head.

Several big brands, like H&M and Eileen Fisher, now take back clothing in their stores. But Evmu co-founder Stacy Flynn says they don't necessarily have second uses for it. "It's piling up and they don't really know what to do with it. We have places for clothing to go, like rags, insulation, rugs, and those kinds of things. But regeneration has not been commercialized yet.

The cloth Evmu has made so far has the texture of silk and is stronger than cotton, Flynn claims. It costs the same as organic cotton, so will probably be used in premium products to begin with.



# World Textile News

## Asahi Kasei to show Cupro & Roica at Premiere Vision

Japanese company Asahi Kasei will reveal its new innovations; Cupro and Roica fabrics for fashion and sport, at the Premiere Vision autumn salon in Paris.

“Cupro is a matchless material with an exquisite touch with smart science and a natural-based resources behind its invention and now delivers its cool and sensual experience for all fashion items,” the company said in a press release.

Cupro FF is of micro fine quality with extra softness, super-fineness and drape for new levels of weightless, silk-like luxury. Also new is Cupro DF, which subtly seduces fingertips with its petal soft, powdered touch and completely opaque, protecting from UV.

Another Cupro introduction is a new staple spun fabric that offers an everyday, luxury touch that is natural in feel with low pill luster.

Roica is a premium stretch fibre that comes in a range of smart functions and shapes comfort with quality, performance and fit, adding value with values everyday for every fashion need.

Of which, Roica Eco-Smart is designed to match the new era of environmentally responsible fashion, this unique elastomeric stretch function is dedicated to a new and more responsible manufacture.

An eco-friendly, stretch yarn that is fully GRS certified with environmental benefits as its manufacture uses more than 50 per cent pre-production industrial waste.

Roica Colour Perfect is the second innovation to be announced at Premiere Vision of high quality and dye-able to match stretch yarn that gives a beautiful, no sparkle, flawless and even matte finish.

## Robotics to rule textile & apparel manufacturing processes

Robotics will eventually rule the textile and apparel manufacturing processes, and full-automation at all the stages of production will be encouraged.

As scientists predict, the day is not far when robots will rule the world. High profile, technologically superior robots will take care of the work that human beings had been slogging at for long. Human intervention will be needed only in monitoring and instructing. Artificial intelligence is likely to scale down this limitation of the need for human monitoring and instructing to the maximum extent possible. Machinery manufacturers will adopt as much automation as they can for processes, and the resultant will likely be a fully-automated manufacturing plant with hardly any human intervention.

The textile industry is fast moving in this direction. Renowned textile machinery manufacturers and solution providers claim that the global textile industry will not take long to become fully automated. Robotics will help achieve this dream. Latest advancements in robotics for the textile industry will be showcased in the ITMA 2015 fair about to be held in Milan this November. Machinery companies will present innovative solutions with respect to automation for the various functions in textile and apparel manufacture like ginning, spinning, knitting, weaving, dyeing, finishing and various others.

Neuenhauser Maschinenbau GmbH, providing automated handling and transport system for natural, chemical and carbon fibre bobbins, will exhibit new automation solutions for collecting packages from spinning machines, palletising and packaging at ITMA. Wilhelm Languis, head - Textile Industry Automation at Neuenhauser said in a statement, “Anybody



ceremony, Allahyari announced.

“Giving the title of World Crafts City to Isfahan provides a chance for the city to introduce capacities in art to the world.

Over 18000 artists produce handicrafts in 196 types in Isfahan, which covers one third of handicraft products in Iran, he said.

WCC President Wang Shan sent a message to Soltanifar congratulating him on such a success.

The crafts of Isfahan encompass textiles, carpets, metalwork, woodwork, ceramics, painting, and inlay works of various kind. The work is carried out in different settings including small industrial and bazaar workshops, in the homes of craftsmen and women, and in rural cottage industries.

## Persian carpet is cultural ambassador of Iran around the world

The name of Iran is associated with Persian carpet, which is the cultural envoy of the rich civilization of Iran, managing director of Zanjan’s Union for Rural Handmade Carpet Nasser Babakhani said. Rural hand-woven carpet unions from different parts of Iran took part at the 24th edition of Handmade Carpet Exhibition, which was held from August 23 to 29 at Tehran’s International Permanent Fair Ground. The exhibition hosted over 700 participants from different parts of Iran, which welcomed visitors with a wide range of carpets in pattern and material.

“A large number of carpets are offered during the exhibition, which is not very professional in my view,” he said.

Persian carpet is known as a precious rare object around the world and the exhibition of such huge volume of Persian carpets discourage foreign traders, he lamented.

He expressed hope over increasing exports to the U.S. as one of the main markets of Persian carpet in early 2016.

According to a report published in Boston Globe, the U.S. market had made up one-fifth of Iran’s carpet exports. The president of Iran’s National Carpet Center Hamid Kargar said producers in the Islamic republic are already making carpets with Americans in mind and are hopeful that trade will resume next year.

Iran exported \$330 million in Persian carpets last year. Exports account for two-thirds of Iran’s carpet production, which now stands at more than 53 million square feet a year.

## Iran, Czech Republic ink double taxation avoidance agreement

Iran and the Czech Republic signed a double taxation avoidance agreement in a bid to give a boost to the bilateral trade.

The main purpose of the agreement is to avoid taxation of income in both the countries and to promote and foster economic trade and investment between the two countries.

Iranian Finance and Economic affairs Minister Ali Tayyebnia and Czech Republic’s Finance Minister Andrej Babis signed the agreement in the Czech capital city of Prague.

On the sidelines of the meeting, the Czech official said that having access to the Iranian market is of great importance.

Tehran Chamber of Commerce Chairman Yahya Ale Es’haq said on April 13 that Iran and the Czech Republic can boost mutual cooperation in trade and economic projects.

Ale Es’haq said that the two countries’ mutual trade traditionally focused on industry, infrastructure, oil, energy, crystal products, and textile.

“Our mutual trade has lowered to \$40 million, but technical factors and the markets are such that we can boost our relations,” he stated.

## Iran nuclear deal not removing barriers to trade for Turkish firm

The nuclear agreement inked in April between several world powers and Iran has not provided the improvement in trade Turkish companies that do business with Iranian counterparts had hoped for, since receiving payments from Iran often leads lenders to reduce the credit scores of firms in Turkey.

On the eve of the nuclear deal that eliminated the harsh sanctions previously imposed on Iran, Turkish companies looked forward to the idea of a resumption of investment in the neighboring country. However, according to the daily’s report, which cited sources from both the financial and foreign trade sectors, Turkish companies are given a poorer credit rating in Turkey if an Iran-based company makes payment directly to their bank account. The report also noted that both foreign and Turkish lenders in the country observe the same practice of reducing credit scores in these circumstances. When the five permanent members of the UN Security Council plus Germany – dubbed the P5+1 – signed the long-awaited agreement with Iran to curb the latter’s nuclear program, Iran indicated that it hoped to sign \$185 billion in oil and gas projects alone by the year 2020.

Among other business groups, 27 Turkish companies operating mainly in the textile industry stated in mid-July that they would take a business trip to Iran’s capital of Tehran in the coming months in order to boost trade ties.

# Iran Textile News

## Scientists use graphene quantum dots to produce azo dyes

Iranian researchers succeeded in the laboratorial production of quantum dots made of graphene as catalysts to produce azo dyes to be used in color and textile industries, INIC reports.

Azo dyes are widely used in color and textile industries due to their high mechanical and thermal stability and they are applied in pharmaceuticals as drug carriers.

According to Iran Nanotechnology Initiative Council (INIC), the Iranian researchers succeeded in the laboratorial production of quantum dots made of graphene as catalysts to produce azo dyes. The produced nanocatalyst showed appropriate performance in increasing the efficiency of the production of azo dye compounds. Modified graphene quantum dots have been used in this research as nanocatalyst to synthesize azo dyes. According to the results, the use of the nanostructure optimizes the production method to produce azo compounds. In fact, much higher efficiency has been obtained in the production of the product in shorter time by spending the minimum of cost. The first step in the synthesis of azo dyes is the conversion of amine compounds into diazonium salts. Graphene quantum dots produced in this research are used as the source of nitrosonium to be used in this step. Therefore, the process of the production of azo dyes does not require sodium nitrite any more, which is a very toxic compound.

In summary, the synthesis and evaluation of the nanostructures have been designed on the basis of green chemistry, and all processes have been carried out based on spending less time to obtain high-efficient products without harming the environment. Results of the research have been published in *Dyes and Pigments*, vol. 113, 2015, pp. 522-528.

## Iran to weave world's largest carpet for Algiers mosque

Iran is set to produce the largest carpet in the world at over 10,000 square meters for the Grand Mosque under construction in Algiers. Experts from the northeastern city of Neyshabour will be weaving the carpet, as local Iranian authorities suggested to the Algerian Islamic affairs ministry. The initiative has been authorized by the foreign ministry. Construction on the Grand Mosque began in 2012. It will be the third largest in the world after those in Mecca and Medina, with a 265-meter-high minaret, and will include a multimedia library, research center, Quranic school and 35,000-capacity prayer space. The current largest carpet in the world was also made in Iran and covers a 5,700-square-meter space in the Abu Dhabi mosque. There are four pieces to it and it was woven by the Iran Carpet Company in 21 months. It took 1,200 weavers, 20 technicians and 30 designers to complete it, along with 30 tons of wool and 15 of cotton.

## Isfahan to celebrate its registration as World Crafts City

In a declaration on September 7 the World Crafts Council (WCC) recognized Iranian cities of Isfahan and Tabriz as World Crafts Cities. Masud Soltanifar, the chief of Iran's Cultural Heritage, Tourism and Handicraft Organization (CHTHO), and some ambassadors are invited to the ceremony, Isfahan CHTHO office director said. Fereyduun Allahyari said a selection of elite handicraft artists will also attend the event.

Three exquisite handicraft artworks will be also unveiled during the



- Dr Behnam Pourdeyhimi, Director, The Nonwovens Institute, North Carolina State University, USA

The Speakers Platform will be held at the Research & Innovation Pavilion from 15 to 17 November. Please visit [www.itma.com](http://www.itma.com) for the full schedule of presentations. Participation in the Speakers Platform is complimentary for ITMA badge holders.

### **2BFUNTEX Final Conference**

The Speakers Platform will also feature the 2BFUNTEX Final Conference on Technology Transfer of Functional Textile Innovations. The conference on 14 November will showcase successful cases of effective technology transfer between research and industry, with a special focus on antimicrobial textiles, smart textiles, nanotechnologies, flame retardancy, biotechnology, electrospinning, plasma, sustainable textiles and other functional textiles. Two winners of this year's 2BFUNTEX technology competition will also give their presentations at the event.

The conference is organised within the European Commission FP7 NMP Coordination Action aimed at exploiting the untapped potential in functional textile structures and textile related materials.

### **Concurrent events**

Visitors will also be able to access a series of co-located knowledge-sharing activities held at ITMA 2015.

#### **• BCI Responsible Cotton Sourcing Seminar**

With the 'Art of Sustainability' in mind, the Better Cotton Initiative (BCI) is providing a half-day seminar on 17 November. The aim is to educate the wider industry about the global challenges in cotton production and how BCI is providing leading retailers and brands with a mainstream option for more sustainably produced cotton. The Better Cotton Standard is designed to help mitigate risks and create opportunities in the existing cotton supply chain.

#### **• Digital Textile Conference**

This one-day conference on 15 November provides a comprehensive presentation of the most important new developments in the printing sector, in particular digital textile printing. Themed 'The Next Stage: Latest Advances in Production Inkjet Printing', it will offer detailed insights into these innovations across applications that include fashion, home and technical textiles. The conference is organised by World Textile Information Network.

#### **• EURATEX Convention**

On 18 November, industry and technology thought leaders will gather to discuss if the European Union textile and apparel sector has found enduring competitive advantages in its focus on quality, innovation and sustainability. Textile and clothing manufacturers will share experiences, and promising technologies and markets in a roundtable discussion.

ITMA 2015 will be held at the Fiera Milano Rho from 12 to 19 November 2015. It showcases end-to-end solutions for the entire textile and garment making chain. The exhibition has a gross size of over 200,000 square metres. To date, over 1,600 exhibitors from 50 economies have signed up to take part in the exhibition.

Visitors can purchase their ITMA 2015 badge online by 15 October in order to enjoy early-bird rates. For more information on the exhibition and conferences, please visit [www.itma.com](http://www.itma.com).

### **About CEMATEX & ITMA**

The European Committee of Textile Machinery Manufacturers (CEMATEX) comprises national textile machinery associations from Belgium, France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland and the United Kingdom. It is the owner of ITMA and ITMA ASIA. Considered the 'Olympics' of textile machinery exhibitions, ITMA has a 60-year history of displaying the latest in machinery and software for every single work process of textile making. It is held every four years in Europe.

### **About MP Expositions**

MP Expositions is a subsidiary of MP International Pte Ltd, a professional exhibition and conference organiser. Established in Singapore in 1987, MP has organised and managed over 2000 major national, regional and international events, including the Asia-Pacific Economic Cooperation (APEC) 2009 Leaders' Week. It is the organiser of ITMA 2011 and 2015, and ITMA ASIA 2001 and 2005. It is also co-organiser of the ITMA ASIA+CITME shows 2008, 2010, 2012 and 2014. A member of the Pico group, MP International is headquartered in Singapore with a global footprint across Asia and Europe. MP's success with various partners is a testimony of its ability to identify opportunities and maximise the rewards for win-win partnerships.



## **ITMA 2015 Speakers Platform to feature 43 presentations on sustainable innovations and technical textiles applications**

23 September 2015 – ITMA 2015 visitors will be able to learn about the latest research and development projects from 43 presenters at the Speakers Platform. The presenters hail from 17 of the 39 leading institutions taking part in the Research & Innovation Pavilion.

The 20-minute presentations will focus on three key themes: sustainable innovations, achievements in innovation and technical textiles applications.

### **Sustainable Innovations**

A number of papers to be delivered will feature innovations in regeneration and reuse of materials, total or reduced waste emissions, and environmental management. Among them are:

- Development of a Process for Recycling of Blended Fabrics by Marie-Isabel Popzyk, Institut Für Textiltechnik, Rwth Aachen University, Germany
- Biomimicry in Textiles and Sustainability by Tushar Ghosh, North Carolina State University College Of Textiles, United States Of America
- Recycling of Textiles: An Important Challenge by Chiara Besnati, Centro Tessile Cotoniero E Abbigliamento S.P.A., Italy
- Innovative Digital Textile Printing Applications – A Contribution to Sustainability and Customisation by Michael Korger, Hochschule Niederrhein, Germany
- Corporate Environmental Management for the Textile Sector by Albachiara Boffelli, Università Degli Studi Di Bergamo, Italy

### **Achievements in Innovation & Technical Textiles Applications**

Papers within these two themes cover topics such as smart textiles and wearable technology, advanced materials and composites, and sports industry applications:

- Textiles for Health Monitoring by Marco Silvestri, Università Degli Studi Di Parma, Italy
- Developing Innovative Integrated Smart Textile Applications through Cross-Disciplinary Collaboration by Frances Joseph, Auckland University Of Technology, New Zealand
- Comfort for Sportswear: An Essential Performance by Marco Beia, Centro Tessile Cotoniero E Abbigliamento S.P.A., Italy
- Innovative Textile Technologies For Thermoplastic Composite Material by Francois Boussu, Ecole Nationale Supérieure Des Arts Et Industries Textiles, France

Dr Jeroen Vits, Secretary General of Belgian Textile Machinery Association (SYMATEX, Belgium) and Chairman of CEMATEX's research workgroup, said: "ITMA provides the impetus to research institutes and textile machinery manufacturers to develop breakthrough materials and sustainable innovations which are critical for textile and garment manufacturers to stay competitive. The ITMA Research and Innovation Speakers Platform is an excellent area where ITMA visitors can be the first to pick up the latest innovations from the world's leading institutions."

Joining Dr Vits as members of the Speakers Platform Technical Committee are:

- Prof Vladan Koncar, Director of Research, GEMTEX, Head of Research, ENSAIT, France
- Prof Thomas Gries, Director, Institut für Textiltechnik, RWTH Aachen University, Germany
- Dr Takeshi Kikutani, Manager, Environmental Design Education Service, Graduate School of Science and Engineering, Tokyo Institute of Technology, Japan





press  
release

# Cematex, The European Committee of Textile Machinery Manufacturers

## **ITMA returns to Barcelona in 2019**

16 September 2015 – CEMATEX announces that Spain will host the 18th edition of ITMA, the world's largest exhibition of textile and garment machinery technology. It will be held at the Fira de Barcelona exhibition centre from 20 to 26 June 2019.

Fira de Barcelona won the international bid organised by CEMATEX, the owner of the ITMA and ITMA ASIA shows, after fierce competition from three other short-listed bidders out of an original list of 9 venues.

ITMA was last held in Barcelona in 2011 where visitorship exceeded 100,000 from 138 countries. 90% of the visitors came from outside of Spain, and the international mix of visitors and buyers was very well received by exhibitors.

Mr Charles Beauduin, President of CEMATEX, stated "We are delighted to bring ITMA back to Barcelona. The selection process took us 2 years and our investigations into all the 9 potential venues and their services were very detailed. We enjoyed an extremely successful show in Barcelona in 2011 and our exhibitors and visitors were very impressed with the facilities and infrastructure on site. We are looking forward to another great event there in 2019".

Mr Agustin Cordon, CEO of Fira de Barcelona, added "We are delighted and honoured to have been selected once more to host the ITMA show, and our team is looking forward to welcoming exhibitors and visitors back to the city. We gained a lot of experience from working on the 2011 show and are confident of achieving another very successful event".

CEMATEX has appointed an official accommodation agency, B-network, to manage the hotel accommodation services for ITMA 2019, following on from its very professional and successful management of accommodation for the 2011 show. An official website has already been set up ([www.itmahotels.b-network.com](http://www.itmahotels.b-network.com)) offering very competitive rates in a wide range of hotels.

Preparations for this year's ITMA in Milan (12 to 19 November) are continuing, with over 1,600 exhibitors from more than 40 countries taking part. Expectations are that a trade visitorship of over 100,000 from more than 140 countries will participate.

Further details are available at [www.itma.com](http://www.itma.com)

## **About CEMATEX & ITMA**

The European Committee of Textile Machinery Manufacturers (CEMATEX) comprises national textile machinery associations from Belgium, France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland and the United Kingdom. It is the owner of ITMA and ITMA ASIA. Considered the 'Olympics' of textile machinery exhibitions, ITMA has a 64-year history of displaying the latest in machinery and software for every single work process of textile making. It is held every four years in Europe.



# IDF Oman – Oman’s Premier International Interior Design, Décor & Furniture Exhibition

February 15-17, 2016



Interior  
Design  
Décor &  
Furniture  
Expo 2014

*One Stop Solution*

3rd IDF Oman - Interior Design, Décor & Furniture Exhibition which is organized by Al Nimr Expo, under the patronage of the Ministry of Housing & Public Authority for Craft Industries, Sultanate of Oman will be held from 15 – 17 February, 2016 at the Oman International Exhibition Centre in Seeb.

Oman's rapid progress in the construction and the real estate sector, has witnessed the launch of numerous commercial, residential & tourism projects, thus creating a demand for interior & outdoor design, décor & furnishings.

The key objective is to display the latest in technology, usage of materials and innovative approaches to interior design, décor & furniture. IDF has created to meet the growing demand, by bringing together all the leading companies in the industry under one roof.

In its third edition, IDF Oman will be showcasing the Accessories & Art, Bathroom, Building Material, Carpets, Commercial Interiors & Fit Out, Décor, Flooring, Furniture & Furnishings, Interior Design, Kitchen, Lightings, Luxury Life Style, Outdoor Design & Build, Renovation, Retail Fit-Out and Eco Building, Surfaces & Finishes, Textiles, Vastu & Fengshui, to compliment the on-going construction of major infrastructure projects in the Sultanate, making the exhibition an 'exclusive bazaar'.

Though the exhibition is five months away, the marketing of the event has already kicked off full swing and IDF is set to get over 100 companies from across the globe beating the previous best from the past two editions.

The Diamond Sponsor for the event is; Kny Design GmbH; The Platinum Sponsor is; Décor Collezione / Uday Khimji International LLC; The Gold Sponsors are; MAF + Partners & Swiss Open Air Concept and the Visitor Badge Sponsors are Chiller & Vivid Security. The exhibition is also supported by Paragon International, American Hardwood Export Council, Egyptian Furniture Export Council, Association of Professional Interior Designers & AIA Middle East.

One of the main highlights of IDF Oman will be the Italian Area managed by MEDINIT SRL with over 45 Italian companies. Italy has long been seen as the structure of western art and design. Italian design concepts beautifully allow us to create an identity and express our chosen lifestyle and individuality.

**Paragon Arts** will again promote the art and the artists from both the local and international markets with their non-profit educational, social and entertainment CSR initiative.





press  
release

PRESS RELEASE

# First ITMA Sustainable Innovation Award finalists revealed

## Award winners to be unveiled at ITMA 2015 gala dinner

CEMATEX, the European Committee of Textile Machinery Manufacturers, is pleased to announce that six finalists have been shortlisted from some 30 entries for its first ITMA Sustainable Innovation Award. Three of the finalists are vying for the ITMA Industry Excellence Award while the remaining three are competing for the ITMA Research & Innovation (R&I) Excellence Award.

## Industry Excellence Award

The Award recognises textile and garment manufacturers who have leveraged on technological innovations to advance business sustainability that benefit people, planet and profit. After much deliberation, the judges have picked the following three finalists who have worked closely with ITMA 2015 exhibitors to introduce innovative solutions to their production process or products:

- **Berto Industria Tessile SRL (Italy)**

Berto Industria Tessile, a leading vertically integrated manufacturer of denim products, was quick to recognise the economic and ecological advantages of the Matex® Eco Applicator range by ITMA exhibitor Monforts. They were the pioneer in adopting Monforts' innovative technology, which enabled them to significantly reduce the amount of liquid needed in finishing denim fabrics, leading to energy savings and a huge reduction in waste water produced.

- **Gebrüder Otto GmbH & Co. KG (Germany)**

Gebrüder Otto, one of the leading yarn manufacturers in Europe, implemented Mayer & Cie.'s spinitystems® to produce single jersey fabric using up to 35 per cent less energy compared to the conventional process. As a spinning mill, Gebrüder Otto produces the roving bobbins which are processed on the Spinit machines.

- **Levi Strauss & Co. (USA)**

Levi Strauss & Co., one of the world's largest brand name apparel companies and a global leader in jeanswear, has started preliminary development work in their Plock facility in Poland using the NoStone® garment washing technology. Tonello's NoStone® technology provides Levi Strauss & Co. an important first step to solving an industry challenge to

make denim finishing more sustainable, cost-effective and efficient.

Mr Charles Beauduin, who sits on the Industry Excellence Award judging panel and is also President of CEMATEX, said: "We thank ITMA 2015 exhibitors for supporting this award. What differentiates this award from other industry recognition is that we celebrate the successful collaboration between technology providers and industry users, which ultimately benefits consumers.

"Necessity is the mother of invention, and the synergies from both parties working together towards a common goal will bring about more innovative solutions that will positively impact the environment and the business bottom line."

R&I Excellence Award – Masters

## The three finalists for the award are:

- **Jan Vincent Jordan, Institut Für Textiltechnik, RWTH Aachen University**

Master's Thesis: 'Development & Assembly of a Test Bench for the Analysis of Magnetic Weft Insertion'

- **Jenifer Schneidereit, Hochschule Niederrhein**

Master's Thesis: 'Sustainable Water Use in Textile Wet Processing: Development of a List of Improvement Measures for a Self-Assessment Tool for Factories'

- **Moniruddoza Ashir, Institute of Textile Machinery and High Performance Material Technology, TU Dresden**

Master's Thesis: 'Development of Hybrid Woven Structures for Lightweight Applications'

The winners of the ITMA Sustainable Innovation Award will be announced at the ITMA 2015 Gala Dinner held at the La Pelota in Milan on 12 November. The winner of the Industry Excellence Award will receive a cash prize of 10,000 euros and a trophy, among other rewards. A cash prize of 4,000 euros will be given to the winner of the R&I Excellence Award.

CEMATEX has launched ITMA Sustainable Innovation Award as part of its ongoing efforts to encourage and recognise outstanding industry members and post-graduate students for their contributions to the sustainable development of the global textile and garment industry.