Organized by the Taiwan Textile Federation (TTF) and under the auspices of the Bureau of Foreign Trade, Ministry of Economic Affairs, the 18th Taipei Innovative Textile Application Show (TITAS) was held from October 15 to 17, 2014 at the Taipei World Trade Center Nangang Exhibition Hall. A total of 367 exhibitors, coming from 11 countries and regions including Taiwan, Japan, South Korea, United States, the Netherlands, Singapore, Switzerland, Sweden, Vietnam, China and Hong Kong, presented their latest products at the Show. The largest ever show scale plus a steadily recovering international economy already promises a busy and vibrant business atmosphere ahead.

**Fervent participation from domestic and international vendors**

In addition to major players in Taiwan’s textile industry, such as Formosa Plastic (Formosa Chemicals & Fibre, Nan Ya Plastics, Formosa Taffeta, Formosa Plastic), Far Eastern New Century, Eclat Textile, Tri Ocean Textile, Tex-Ray Industrial, Singtex Industrial, Fabric King and Kingwhale Industrial, renowned machine maker Paul Long Machinery and digital printer brand Epson Taiwan, as well as the members from total 18 textile and apparel related organizations representing up to down-stream sectors in the textile production chain are all in the local exhibitors list.

On the oversea part, a large proportion of vendors are from Japan, South Korea, and China. TITAS this year welcomed visiting delegations from Thai Garment Manufacturers Association, Istanbul Textile and Apparel Exporter Association, All Nippon Nonwovens Association, Japan Textile Machinery Association, and National Council of Private Romanian SMEs (CNIPMMR), among others.

**Functional, Eco-friendly and Fashion Topnotch Textiles Featured at TITAS 2014**

TITAS has well established itself as the ideal platform for innovative textiles. The Show this year features comfortable, lightweight, breathable,
dust-proof, stain-resistant, odor-free, and temperature-regulating including heat-proof and cooling textiles. On the eco front, non-toxic, sustainable, biodegradable, safely processed and PFOS-free materials will be accentuated. In addition, fashion fabrics incorporating performance as well as finishing technologies for functionality are two focal points not to be missed.

Some of the latest products and technologies featured at TITAS 2014 from Taiwan’s exhibitors include:
- Formosa Plastics Group presented its exhibits around the theme “Green Technologies for Innovative Fashion” to show the group’s commitment to a greener life.
- Far Eastern New Century displayed its advanced sustainable polyester materials.
- Eclat showcased its premium quality functional knitted fabrics.
- A leader in the R&D of eco textiles, Texray presented textiles fulfilling the functional needs in modern life.
- Singtex demonstrated more new applications of its famous bio-friendly S.Café® yarn.
- Tri Ocean highlighted its quick moisture-transferring polypropylene filament yarn DreamFel.
- Fabric King presented its 3D-structure fabric, 2.5-layered print fabric, and the new thermal change & photoreceptor technology applied on textile.
- Everlight Chemical recommended its high performance PU functional adhesives Evereco.
- Sheico Group illustrated its core competence in neoprene technology.
- Solis displayed a variety of fabrics for outdoor and functional wear.
- Sunny Lace exhibited colorful and quality laces made with exquisite craftsmanship.

added benefits

In the nearly one thousand business meetings organized for TITAS 2014, more than 80 international brands and retailers, including the first timers Burberry and Coach, will have face-to-face business talks with exhibitors. Representatives of other fashion brands from Victoria’s Secret and Jones New York from the U.S., Hope from Brazil, Lily from China also was present.

TITAS is an especially important sourcing occasion for sports, outdoor and casual apparel brands. This year we saw buyers from Speedo PVH, the North Face and Tommy Bahama from the U.S., Roots from Canada, Adidas and Alpargatas from Brazil, Peak Performance from Sweden, Helly Hansen from Norway, Salewa from Italy, Scott from Switzerland, O’neill from the Netherlands, Millet from France, Mountain Equipment from the U.K., Globetrotter and Vaude from Germany, Red Fox from Russia, Mont-Bell from Japan, K2, LS Networks and Youngone from South Korea, Kathmandu from New Zealand, and Ozark Gear from China.

Seminars and presentations

15 seminars and product & technology presentations are arranged this year. Topics cover new textiles, development in functional fashion textiles, trends in digital prints, energy/resources management in textile industry, etc.

Committed to help lead the industry towards zero discharge of hazardous chemicals, ZDHC will be holding the “TITAS-ZDHC Taipei Forum” at TITAS for the first time. The forum provides a rare opportunity to be involved in discussions on such an important issue and should not be missed out.

TITAS 2015 in Taipei

Earlier than the usual dates, TITAS 2015 will be held from September 30 to October 2 at the Taipei World Trade Center Nangang Exhibition Hall. Many new trends are now emerging in the global textile industry and market, and we can already expect to see more innovations next year!

TTF (Taiwan Textile Federation) secretary general Mr. Justin Huang commented as follows.
As a joint project with Nike, 3 Taiwanese companies (Far Eastern New Century, Formosa Taffeta and Eclat Textile) are moving toward mass production in the water-free dyeing factory based on the leading-edge technology. In this water-free dyeing, a water-free feature has been realized by substituting supercritical carbon dioxide for water. Due to this feature, eco-friendly textile production has been made possible. This is the world’s first attempt and has drawn industry’s attention as an epoch-making manufacturing process.

Also the visitors’ attention at TITAS was drawn by the world’s most lightweight fabric. Its filament was developed by FCFC (Formosa Chemicals and Fiber Corporation) and the woven fabric was developed by Formosa Taffeta. Both companies belong to Formosa Plastic Group. The filament is of 5 denier and the fabric weighs 25 g/SQM, meaning an ultra-light weight.

On the other hand, there was an item developed by combination of LED and textile about which many visitors talked. This item was invented by Taiwanese fabric mill, Fabric King. The item was demonstrated through its application to a rescue jacket. The rescue jacket automatically turns on LED light when soaked in water. Light emitting power derives from water. And, New Wide Group in Taiwan made German team’s uniform for World Cup of FIFA 2014, and the team won the championship.

During TITAS session, world’s leading sportswear brands and retailers, 20 companies in total organized a forum for ZDHC (Zero Discharge of Hazardous Chemicals) and declared the implementation of zero discharge of hazardous chemicals in all-textile manufactured by 2020. Also on October 14 during the show session, Mr. Sung from the South Korea’s biggest-scale apparel company Youngone opened a new liaison office in Taipei in order to build up a more effective sourcing business in Taiwan and their offshore facility. Almost all leading textile mills in Taiwan were invited to be present at the opening.

Sporting goods manufacturer Nike uses Taiwanese-made fabrics by 40% in all the fabrics of its apparel products. For Nike, Taiwan is the country of the number 1 fabric supplier in the world. Charm of Taiwanese textile lies in that this country releases new products based on leading-edge technology such as functional textile every season. Therefore, Taiwan has given benefits to retailers and consumers alike. Taiwanese textile is advantageous due to integrated technology for fiber, filament, fabric and apparel. For Taiwanese textile industry, approach to sportswear and outdoor wear is now very important, but approach to functional fashion wear having a higher value-added will become important in the future.

Introduced below are highlights at TITAS 2014 and new products of Taiwanese leading textile companies there.

**Formosa Plastics Group**

In 2014, TITAS, Formosa Plastics Group’s exhibition theme is “Green Tech. Lead Fashion” that emphasizes on exceptional technology, high-value delicate textile and fabric products as well as the determination of green energy life.

In 2014, TITAS, “Formosa Plastic Group Hall” is the joint efforts of Formosa Chemicals and Fibre Corporation, Formosa Petrochemical, Nan Ya, and Formosa Taffeta. The Hall consists of eight theme areas: “Airy Chic,” “Eco Life,” “Functional Outdoor,” “Trendy Sports,” “Technical Textiles,” “Beauty Fashion,” “Vitality,” and “Rhythm,” that present a full range of main products in fashion, sports, outdoors, and industrial material applications. At the same time, the newest yarn and material development has also been exhibited. The Formosa Plastics Group produces eight fabrics for textile production: “Cotton Spinning Fiber,” “Rayon Fiber,” “Polyamide Fiber,” “Polyacrylonitrile Fiber,” “Polyester Fiber,” “Acrylic Fiber,” “Carbon Fiber,” and “Elastic Fiber.” Formosa Taffeta incorporates eight major types of fibers for its “Formosa Taffeta Finished Fabric.” The visit to Formosa Plastics Group Hall, you can be updated with the innovative fashion textiles made of seven types of fibers as well as the image of Formosa Plastics Group series products that are made of integrated green technology, environmental concept, and exceptional quality.

Exhibition features of Formosa Plastics Group in 2014 TITAS:

**Formosa Chemicals and Fibre Corporation**

Formosa Chemicals and Fibre Corporation’s PP is manufactured with newest Japanese CHISSO manufacturing method that enables fiber class PP to have the features of high crystallization and narrow distribution of molecular weight. It is good for the application to PP fine Denier multifilament, PP/PE composite cotton, and non-woven fabric, the mainstream of industrial material with high quality recognized by both domestic and international customers.

Formosa Chemicals and Fibre Corporation has successfully developed Rayon Cotton Formotex® with high moisture transition coefficient and is now the world’s second stable mass producer that fits the quality requirement of ISO 2076 Moda standard with high strength and moisture transition coefficient to give textile good stability and dying feature to ensure softness, comfort, colorfulness, and suspension, the best selection for fashion apparels and high class leisure wear.

Formosa Chemicals and Fibre Corporation’s permanent flame retardant rayon fiber uses environmentally friendly natural trees as the ingredient. The adoption of Formotex Modal Fiber Manufacturing Process ensures the high strength and flame resistance of fiber after adding fire retardants. Fire retardants in the fiber will not disappear due to washing or abrasion. With the high absorbitivity, fire retardant wear maintains comfort and permeability. At the burning temperature
of fiber >450°C, the fiber does not contract or deform and carburization zone will form on the surface of fiber as the barrier for continuous reaction with combustibles.

Leading its counterparts, Formosa Chemicals and Fibre Corporation launched nylon ultrafine fiber with single Denier filament less than 0.5D/f and the strength7.0g/D at the dimension of 66/136 - 20/48(dpf 0.5) that brings nylon fabric into another new era. With high textile density, the fabric is made to be soft, permeable, and lightweight, suitable for the exceptional touching feeling, lightweight, and fashion requirement of down jackets.

Formosa Chemicals and Fibre Corporation is in the lead to develop 7-20 Denier bright nylon, the addition of nano minerals to the nylon polymer manufacturing procedure. With various particle angles and refraction, glare is presented. After general circular spinning, the fashionable pearl luster can be made. At the same time, the small fraction coefficient ensures the manufacturing efficiency and fabric quality that reduces damages during processing.

With the launch of nylon “deeply dyed FDY,” Formosa Chemicals and Fibre Corporation provides the industrial application to incorporate with general nylon fiber production that requires only one-time dying to reach the effect of double different colored layers to present colorfulness and the feasibility of single manufacturing. It saves 20% time and 15% use of dyeing material for the purpose of energy saving, carbon reduction, and cost reduction.

Formosa Chemicals and Fibre Corporation released three healthy functional nylon fibers: nano energy fiber, heating fiber, and cooling fiber made of high-tech manufacturing technology with long effective functionality. Formosa Chemicals and Fibre Corporation’s “recycled nylon fiber” has been certified with national green label as well as by the international accreditation organization, Control Union GRS (Global Recycle Standard). Additionally, it has been accredited by various apparel brands and gradually becomes the leading product in the market.

Formosa Chemicals and Fibre Corporation has good achievements in the development and application of materials and industrial fibers and at the venue, it exhibits the various applications to fire retardant and flame proof garment, rescue garment, geotextile, tire curtain, box mesh, fish net, and weaving brands.

**Nan Ya Plastics Corporation**

“WARMPLUS” is Nan Ya’s newly introduced “temperature retaining fiber” that can absorb external energy and transform it into heat. “WARMPLUS” has special ceramic particles with high absorption rate of infrared radiation. The fiber can effectively absorb outdoor infrared radiation from the sun ray and indoor one released by human bodies and convert it into heat to retain the temperature. When users are staying indoors, they are still able to keep warm in the cold winter. The original color of the fiber is white, and it can be easily dyed into different colors for diversified designs.

“SUNSHIELD” is cooling and heat retardant silk developed newly by Nan Ya, different from traditional instant cooling enable technology with Q-max indices. “SUNSHIELD” can effectively reflect back sun rays to reach real cooling and heat retardant effect. As proved by experiments, textile made with “SUNSHIELD,” after the exposure to the halogen lamp, reduces the “microclimate” between the fabric and skin by 1.3.. Meanwhile, “SUNSHIELD” has good UV-CUT effect that provides cooling and prevents those engaged in outdoor exercises from the harm of ultraviolet.

“BIOPET” is the new biomass environmental fiber developed by Nan Ya. Rather than polyester fiber traditionally made of glycolethylene, “BIOPET” uses the ingredient extracted from petrochemical material, New BIO-EG. During sugar making process, the by-product, mash, can be converted into glycolethylene in the fermentation process as the material of polyester fiber. “BIOPET” not only preserves the good properties of traditional polyester fiber but also reduces 15% of carbon dioxide emission.

“SPANFIT” is elastic long fiber developed by Nan Ya and has been developed with special composite spin-
ning technology that gives polyester fiber the outstanding elastic effect. In addition to 50, 75, and 150 Denier FDY specification, Nan Ya now introduces 40 and 30 Denier FDY. At the same time, more specifications are now under development to give better elasticity and soft touching feelings.

“MICROFIL” is profiled long fiber developed by Nan Ya. With the observation of temperature holding principle by polar bears, Nan Ya optimize the effect. In addition to temperature holding effect, the technology reduce the weight of heavy autumn and winter wear by 20% to 35%, reaching the double effect of lightweight and temperature holding. This year, Nan Ya developed new profiled fiber to reduce weight and hold temperature as well as reach the dry effect by absorbing body humidity.

Formosa Plastics Corporation
“Tairyfil Carbon Fiber” is the carbon fiber that has original filament developed and produced and carbonized by Formosa Petrochemical. This material has the strength of steel and is light than aluminum; it is also resistant to acid-alkali and has good conductivity. With the above properties, it has been widely applied to sports equipment, wind turbine fans, automobiles, airplanes, vessels, and high-pressure tanks, cable cores, and civil engineering. At present, the annual production capacity reaches 8,750 tons. Tairyfil Carbon Fiber has a full range production specifications and the world class quality.

“Flame Retardant Acrylic Fiber” is developed and researched solely by Formosa Petrochemical. In addition to good properties to keep the temperature, softness, good touch feelings, and dying function, it helps to improve flame proof feature and avoid droplet impact that causes serious skin burns. When the material is applied to garment, furniture, and interior decoration of aviators, it can prevent the occurrence and expansion of fire disasters for better protection of life and property safety. At present, the relevant developed products include regular flame retardant fibers and high flame retardant fibers with limited oxygen index at the range between 23-33%. With good blending properties, it can also be used with other fibers (wool and cotton) to reach the comfort offered by natural fibers and the endurance of synthesized fibers. In addition, it can maintain the good function of flame retardant features. Now, flame retardant flat fiber of artificial fur has been developed to keep warm with fashionable elements. Due to the rising animal conservation consciousness, there have been increasing demands for flat fiber of artificial fur.

Formosa Taffeta Co., Ltd.
- Ultra Light 4-7 Denier- FTC’s newly launched 4~7D ultra-lightweight fabric series boasts an average fabric weight of 25g/m²
- A windbreaker made of these fabrics can even be lighter than a chocolate bar. FTC’s innovative combination of high-tenacity nylon materials, sophisticated weaving & dyeing techniques and topnotch finishing treatments has allowed these amazingly ultra-light fabrics to not only deliver water-repelling, water-proofing, wind-breaking and down-proofing functions but also have a look as gauzy as cicadas’ wings and a touch as fluid as silk. Furthermore, products made of these fabrics are compact and packable. These versatile, multi-functional fabrics can be designed and made into a broad range of products with diverse styles, including outdoor wear, leisurewear and sportswear. Depending on styles and applications, they can highlight either fashionable function or functional fashion.
- Zero Weight-10-15 Denier-Polyester or Nylon fiber based ultra-light fabrics that are made by incorporating with the leading textile making and dyeing processing technologies. It can have single or multiple functions including water proof, ultra water repellent, and moisture permeable properties. It can be applied to lightweight wind jackets, down jackets, and sleeping bags.
- Waterless Eco-dyed- To achieve green eco production, FTC always has offered our customers eco-friendly energy-saving & carbon-reducing finishing and products. FTC now introduces supercritical CO2 waterless dyeing technology. Development and construction of production equipment is underway, and we expect to enter mass production of these eco products for the second quarter of 2014.

The benefits of supercritical CO2 waterless dyeing are summarized below:
- No water resource consumption.
- No waste water discharge.
- Reduced CO2. discharge.
- No dyeing auxiliary is used.
- Saves energy (e.g. Less energy is consumed during the heating phase of dyeing process. No drying is needed after dyeing.)

Permacool™ - As global warming and the greenhouse effect are becoming more severe in recent years, people are experiencing extreme weather, including extreme hot and cold. Therefore, energy-saving cooling fabrics delivering cool and dry comfort have been highly promoted nowadays to cope with this environmental issue.

FTC’s cool-feeling fabrics are made of special cool-feeling fiber with ingenious weave design and high-level finishing technology. The “feeling of coolness” (Q-max) triggered by this series of fabrics upon contacting human skin can be up to 0.17W/m². In addition, they can absorb moisture rapidly and dry quickly. They can instantly transfer sweat away from the skin to the exterior surface of the fabric through wicking and diffusing, resulting in the utmost cool comfort, allowing consumers to bid farewell to extremely hot weather.

Permawarm® Thermal Insulation Fabric - To cope with the coming era of functional thermal insulation, the ew-generation quick thermal heat-insulation fabric converts environmental energy and body temperature into
thermal energy that genuinely achieves the function and effect of thermal insulation. It is a new high-tech lightweight material ideal for thermal insulation in the winter.

e-decay™ Durable Anti-static Fabric - Using a hydrophilic surface high performance anti-static fiber, without adding antistatic chemicals during the dyeing process, our antistatic fabric can achieve an excellent antistatic effect.

In addition, the Special Cross-Section Design and the use of hydrophilic surface active medium results in a permanent antistatic property. Because our process uses white yarn rather than the traditional carbon, fabric color and design are not limited as are other anti-static fabrics and thereby can be used in various styling clothing and precision industry garments.

Four-in-One multifunctional bacteria resistant cooling and permeable fabric- Formosa Taffeta introduces the newest four-in-one functional fabric that can be quickly dried through moisture absorption to provide cooling feelings, easiness to remove dirt, and the resistance to bacteria. The comfortable touch feelings allow the fabric to be used for leisure wear. The powerful function, at the same time, also meets the demands for outdoor sports wear. It is truly “4 in 1 and one for all” for everyone in any occasion.

Trans-Uno® (One-way Moisture Transfer) - Utilizing special dyed yarn and processing treatment to incorporate textile material design, the moisture transmission function can be diverted to a single direction that allows quick permeability of moisture from the skins of human bodies to the surface of garments. “Trans-Uno” fabric is suitable to wear in summer for sports and leisure wears at every age.

ECOSHIELD®- Eco-friendly Coating - FTC’s water-based PU & Acrylic coated Fabrics are manufactured without the use of environmentally-harmful organic solvents. The C6 water-repellent applied to these fabrics does not contain PFOA or PFOS either. They embody eco concepts and are the choice fabrics for umbrellas, downproof apparel, leisurewear and snow suits.

BOOMETEX®, recycled and reused cation dyeable nylon and polyester fabric- due to the threat of global warming and resource depletion, humans are awakened to care for the environment. Based on the environmental concept of renewable resources and global environmental responsibilities, the Company has been devoted to the development of various environmental fabrics. By using recycled PE bottles or polyester and nylon products as materials, we are able to reduce the use of resources, energy consumption, and CO2 emission. Combined with delicate textile design as well as Formosa Taffeta’s special processing technologies, including PFOA/PFOS Free, we produce a series of high-tech and high value added fabrics.

Special woven processing technology coldblack®- It can effectively reflect sun radiation to reduce heat accumulation and to reach cooling effect for the provision of reliable ultraviolet protection. It can also work with Formosa Taffeta’s PERMADRY® for moisture absorption and permeability for the multifunctional temperature adjustment and comfort.

Temperature retaining and water proof fabric- It is made of the combination with the Company’s famous multi-functional fabric brands abletex® and SNUGGTEX™ as well as advanced manufacturing technology. The fabric product contains of properties that can naturally retain temperature and remove odors. With charcoal powder, the high infrared radiation rate can achieve the heat retention effect for blood circulation. In addition to the exceptional odor removing properties on larger surface area and porous structure, it can transmit moisture and is resistant to water and wind, maintaining comfort even in bad weather.

Yarn dyed Fabric- Formosa Taffeta launched long-fiber yarn dyed textile material with fashionable and colorful design, soft touches, and multiple functions. In addition to the properties of cotton that allow quick dry and absorption, down-proof and wind retardant options are also available. It can be used to make shirts, coats, and leisure and sports wear.

Caladans® - Caladans™ fabrics
are produced via a special technique resulting in shadowy prints simulating a “cloud-dye” effect. They can be treated with a crinkle finish to enrich the layering effect and handle, resulting in a texture rivaling that of Hi-end fabrics. Airy, soft, lightweight and stylish, Caladans™ fabrics can be designed into clothing of diverse styles. Using Caladans™ not only can perfectly interpret the end products but also add a nice touch to them – whether they be high-end fashion wear or fashion sportswear. Special textiles- DuPont’s fire retardant material NOMEX® can be applied to industrial safety, firefighting, and military and police uniforms. In corporation with rear-end processing, the fabric has the water repellent and absorption properties. In order to respond to safe textile concept, the new method containing low methane is introduced. Continuously, the Company uses this for bullet proof fabric. KEVLAR® with high strength and abrasion resistance is good for bullet proof helmets and armors. By incorporating with Depot patent technology, pre-soaked and attachment are adopted for the next generation stab-bullet proof multifunctional vests. To respond to competition and the development of bacteria proof processing and camouflage color print, antistatic fabric is also used for the development of high class fabrics. Carbon fiber fabric- Carbon fabric composite companies have successfully developed various carbon fiber fabrics, UD fabric, and multi-ply fabric with extensive use in sports equipment, bicycles, reinforcement of civil engineering, and 3C products. The factories cooperate with domestic 3C protective cover, producing for applications on the protective covers of notebook computers, mobile phones, and Tablet PC. Electrical vehicles in response to energy-conservation and carbon reduction are also the future trends of automobile industry. Carbon fiber composite factories will work with domestic car makers and corporations through continuous investment on the development of carbon fiber for weight reduction in cars. It is estimated that the demand for carbon fiber from the automobile industry will be the drive for next growing momentum. The characteristics of carbon fiber in high intensity and high rigidity will lead to the application on yacht and wind turbine blades. Functional yarn BODYTEK®- With the use of different fiber materials, Formosa Taffeta Co., Ltd develops diversified, innovative, and high value-added yarn products. The wide application to products according to functionalities of yarn can be classified into four series: Health Care Series - With the appeals of holding temperature and keeping warm, facilitating blood circulation, releasing negative ion, killing bacteria and removing odor, isolating ultraviolet, and caring for skin, Formosa Taffeta Co., Ltd. develops various types of underwear, outdoor wear, bedding sets, medical pads, protective devices, and shower products; Environmental Protection Series - With the appeals of nature and environmental protection, resource reuse, and loving the earth, Formosa Taffeta Co., Ltd. develops various types of underwear, sports wear, leisure wear, and fabric products for daily use; Functional Series - This includes underwear, sports wear, leisure wear, and premium one-pieces that absorb body humidity and generate heat, quickly dry out, have anti-pilling function and soft touch feeling, wear with cooling comfort, are fractionally resistant, and regulate temperature; and Protective Series - This includes special wear, work suits, fire retardant or flame retardant fabric, speaker damper fabric, textiles with high strength, protective devices, materials for home decoration with high strength and resistance to cut, static, and electromagnetic wave. FAR EASTERN NEW CENTURY As a leading pioneer and innovator of polyester industry, Far Eastern New Century (FENC) is committed to actively addressing environmental and ecological concerns. FENC not only practices and promotes the concept of energy conservation and water/carbon reduction, but proactively develops green products to meet both customer concerns and corporate social responsibility. FENC’s recycled polyester (TopGreen®) products are widely used in downstream industries. Its food-grade recycled polyester pellet for bottle use is adopted by Coca-Cola and Pepsi. Coca-Cola ranked FENC as its best supplier in the world. TopGreen® fiber was twice assigned to be used for World Cup jersey in 2010 and 2014. FENC is currently developing renewably sourced bio-based PET polyester materials, to be used for PET bottle, film, fiber and a variety of other products. In the development of polyester fiber, with TopHeat+® heat generating fiber, TopCool+® cooling fiber and Outlast® temperature regulating fiber, FENC has successfully adopted a differentiation strategy by combining high performance with sustainable development. In 2013, the company unveiled the world’s first high performance bio-based cooling fiber Bio-TopCool+®, the very embodiment of combining functionality with bio sustainability and the most technologically advanced fiber for apparel in today’s market. FENC will also introduce far-infrared retaining, high UV resistant, as well as antibacterial functional fibers at TITAS 2014. As a vertically integrated total solution supplier, FENC provides high performance textiles which are aesthetic, functional and sustainable, be it for sports, outdoor, or simply for leisure and comfort. For further information, please visit http://www.fenc.com
ECLAT
Innovation & Sustainability
The theme of ECLAT’s exhibits at TITAS 2014 was “Innovation & Sustainability”. Ever since its establishment, with the support of its strong research and innovation team, ECLAT has been striving to be a leading provider of quality and functional knitted fabrics and apparel for a global sports clientele.
ECLAT’s strategic operation hubs worldwide help to close in on the market, satisfy customer needs, and streamline an internationally vertical supply chain from knitting to apparel manufacture for the purpose of offering a one-stop sourcing service for its clientele.
Aiming to enhance the clothing quality and wearing comfort through an eco-friendly production process, ECLAT is incessantly pursuing the balance between the industry and environment while becoming a sustainable enterprise.
For further information, please visit www.eclat.com.tw

Tri Ocean Textile
Genuine Solution
Founded in 1968, Tri Ocean started as a producer of various polyester textured yarns and now becomes one of the leading polypropylene filament and fabric manufacturers in the world. After more than 40 years of striving for the development of technical fibers with emphasis on both high performance and eco-friendliness, Tri Ocean is equipped with a full range of expertise and technology from filament extruding, fiber texturizing, weaving, finishing to garment making.
DreamFel® is the registered trademark for a polypropylene filament yarn made exclusively by Tri Ocean Textile. Featuring lightweight and soft, thermal and durable, the most outstanding benefit of this yarn is its ability to quickly transfer moisture before it condenses on the skin and creates a feeling of clamminess, therefore an ideal material for premium outdoor sportswear. Mainly exported to western markets as selected material for renowned brands and retailers, sportswear made of DreamFel® are available now in Taiwan under the brand name Genuine Solution founded by Tri Ocean.
For further information, please visit www.genuinesolution.com.tw

Texray
Texray Industrial Co., Ltd is the public traded company in Taiwan with global sales and production network covering North America, Africa, China and South East Asia.
As a well-organized vertical integrator, Texray supplies from yarn, fabric to garment. Owing to rapid changes of global environment, Texray has committed herself to develop sustainable green products as well as high functional fabrics.
TCool® is developed by Texray’s R&D team, and it can block 70% of the sun’s rays so as to contribute 2-5°C lower than regular polyester fabric. Cooling performance of TCoool® is permanent and won’t be declined after home laundry by means of injecting the nanoscale cooling master batch into yarn. The leading brand FILA adopts TCool® fabric in one of major categories.
RAYs21TM is the laminated luminous fabric with energy-saving, weatherproof, non-toxic and trendy benefits. By absorbing sunlight or fluorescent light for only 10 minutes, it can glow automatically in the dark for more than 2 hours to keep users safe when taking a walk or doing exercises in the evening. RAYs21TM is proved by SGS to be non-toxic.
If need further information, please visit www.texray.com

SINGTEX
S.Café® reuses the 99.8% coffee grounds left from your cup of coffee to make eco-friendly products SINGTEX®, one of the most prominent fabric manufacturers in Taiwan, is operated by a professional team engaging in the development of fashion, functional and eco-friendly fabrics. Focusing on the development of innovative fabric, SINGTEX® enjoys a long-term partnership with major outdoors brands and retailers including Patagonia, The North Face, Timberland, VF group and Puma.
The most important and famous product from SINGTEX® is S.Café® coffee yarn, which was launched in 2008 and has won numerous invention and innovation awards ever since. S.Café® is a technical composite fiber ideal for knitted and woven apparels. Utilizing the natural ability of coffee grounds to eliminate odors, the fiber provides a comfortable wearing experience as well as UV protection (five times higher than cotton) and fast drying function.
Based on the core technology of S.Café®, SINGTEX® has extended its textile series to create more eco-friendly, innovative and high quality products. By reusing the 99.8% wastes left from your cup of coffee, SINGTEX® regenerate the value and function of coffee grounds. What the company wants to do is to share the idea of protecting earth resources through a friendly and comfortable textile.
For further information, please visit www.singtex.com, www.scafefabrics.com

Fabric King
Fashion vs. Function? Environmental Protection vs. Technology?
How does Fabric King show you a new concept for textile & apparel at TITAS 2014?! We will lead you to think out of the box, breaking the stereotype of the textile industry. When fashion meets function, and environmental protection meets technology, we’ll present you a brand new user experience.
And the experience is both physical and visual. In the show we will present the 3D fabric which can generate visual changes through special tissue construction, the 2.5-layered
print fabric, and the thermal change & photoreceptor technology applied on textile. You will see how these new concepts are brought into your daily wear. In addition, we will highlight functional fabric with wicking and quick dry effects created by special construction without applying any chemical treatment, as well as retro style, two-tone effect knitted fabric and eco-friendly, light weight D’dye fabric collection.

Last but not least, continuing from last year’s active lighting system textiles, we will introduce LED apparel and accessories with more power supply choices to combine with wearing technology.

Just like our business motto, LOVE PEOPLE•LOVE EARTH, our products are full of vitality and versatility enriched by the wearer’s environment. We bring technology together with fashion and safety to offer you a more comfortable and happier life. For further information, please visit : www.fabric-k.com

Kingwhale Industries

Since 1992, Kingwhale Industries has been working relentlessly to manage and control a comprehensive and complete production process. Without the hard work, there is simply no way to deliver the kind of innovation and quality the world’s leading textile customers demand.

With each passing year, new facilities and capabilities were added. From knitting, texturizing and dying mills to state of the art garment factories, we have moved aggressively to vertically integrate our supply chain to answer the needs of clients around the world. Today, we are proud to say we stand as a globally recognized leader in the development and production of high performance textiles and technologies.

Our core offering centers around circular knitted functional textiles, including proven performers like sweater fleece and techno stretch. While these products remain in demand, our story is about much more than fleece. To be an innovator requires adapting to and changing with new trends and market conditions—and one trend that is driving the market today is the demand for sustainable fabrics. Fabrics that make better use of resources, reduce costs for our customers and provide value to their customers in the form of more planet-friendly apparel. Our unique solution to this demand is L.I.T. (Low Impact Technology), and no greater statement of its value to the market could be made than to list just a few of the brands that have embraced it: Patagonia, the North Face, Jack Wolfskin and Peak Performance.

Beyond L.I.T., Kingwhale is advancing textiles in the areas of performance (moisture-wicking and temperature control) and comfort (cotton-touch and FIR).

These products tell the story of Kingwhale today, but if the past performance is an indication of future results, you can trust we are not resting on these successes. We continue to look for ways to optimize, expand and push the boundaries of what’s possible—all with a laser-focus on making products that just feel great, whether from their fit, functionality or their respect for the environment.

For further information, please visit www.kingwhale.com

Solis Fabric Technology Company

Founded in 1991, Solis Fabric Technology Company is a vertically integrated manufacturer from yarn spinning, weaving, dyeing to lamination, bonding and coating, with a specialty in high-tech performance fabric. Considering quality as its core value, Solis insists on having all the products 100% made in its own mill, which is also the reason why the company can offer high-tech textiles in more competitive prices. Committing itself to providing safer and more eco-friendly textiles, Solis’ products have obtained Oeko-Tex Standard 100 certificates since 1999 and for the last couple of years have been approved by bluesign®.

Solis’ product lines cover various fabrics for outerwear, sportswear and bags, as well as woven/knitted functional fabrics including breathable, anti-UV, wicking/quick dry and anti-bacterial. With its Innovative manufacturing and advanced printing technologies, Solis aims to develop modern, fashionable high performance textiles in order to give new aspects and appearance to traditional functional fabrics and generate added-value for outdoor and sports wear. Currently the company launches nearly 1,000 new fabric items each season (six months) to meet market demands.

In the map of the “Apparel Life”, “perfection & innovation” will always be Solis’ DNA in the development of new textiles.

For further information, please visit www.solistex.com ; www.solisgraphic.com

ACHIEVETEX

Founded in 1987 in Yunlin, Taiwan, the company began producing greige fabric. Advanced textile machinery and high tech manufacturing processes now allow the company to achieve high volume production of nylon, polyester, and N/T fabrics. Annual production volume for the company tops more than 13 million yards. The company is committed to superior quality and the best possible services to apparel manufacturers and trading companies.

The company makes products that are suited for outdoor uses such as snowboarding and skiing as well as climbing, jogging, and hiking. Major markets include Europe, Australia, Japan, U.S.A., and China. The company has achieved steady growth throughout its long and successful history, and is well suited to the challenges that lie ahead in the future. For more information, please visit their please visit www.achahead.com.tw
Sunny Special Dyeing and Finishing Co.

Sunny Special Dyeing and Finishing Co. was founded in 1984 and is celebrating 30 years in business this year. Our products include synthetic functional woven and knits fabrics and range from apparel for Outdoor wear and Sportswear to Industrial purpose fabric. We are also directly authorized from Invista® to produce international brands, such as CORDURA® fabric, Supplex® fabric, Tactel® fabric, Thermolite® fabric and Coolmax® Extreme, Active and Everyday fabrics.

Our products are marketed worldwide with various of functions, including wicking, durable water repellent, UV protection, anti-bacterial, anti-mosquito, and breathable water-proof coating and lamination. Our manufacturing plant and products are approved by Bluesign® and Oekotex®; we committed to the highest level of consumer safety and the continuous improvement of environmental performance in our production process. Our belief allows us to stay compatible with the most well-known brands worldwide and roots in Taiwan for sustainable development.

Sunny has devoted massive amount of resources into energy efficiency and carbon reduction regarding our production process; approximately 30% of water and heat energy usage are reduced from our energy saving facilities. Sunny will persist our path in sustainable production and minimize impacts to people and the environment while manufacturing the highest quality functional fabrics. Our ultimate goal is to elevate the competence of Taiwanese textile while initiating the next more versatile and prosperous 30 years.

Hung’s Fortune International Co., Ltd.

History

In 2003, Sam Hung took his more than 20 years of experience in the Taiwan textile industry and founded a new company, HFI. Twelve years later, as the managing director of HFI, Sam is more committed than ever to ensure that HFI is a company capable of partnering with our clients to provide the highest quality, highest performance fabrics available in the marketplace. At HFI we don’t just provide textiles, we provide textile solutions.

HFI’s Textile Solutions

HFI uses in-house research and development and integrates the latest technologies to satisfy the high demands of our global partners. We supply a wide range of Outdoor Fabrics, specializing in Technical, Functional, Sustainable, and Sportswear Textiles including:

* Sustainable Textiles: including our new three times eco-friendly “3X Green” collection, as well as Recycled polyester-wovens / knits; Recyclable PET membrane; PFOA/PFOS Free Chemicals; Solution Dyed; Starch based textiles.
* Outerwear: 2, 2.5, 3.0 Layer Breathable Coating and Lamination.
* Softshell: Windproof Lamination, Bonded
* Downproof Textiles: by construction
* Mid layer: fleece, bonded textiles
* Technical knits: next to skin performance textiles

Resources, Integrity and Honesty

With the benefit of full support from family-owned mills, as well as sourcing from the most talented suppliers, HFI has the resources to provide the best textile solutions possible for our partners. We also fully believe in the importance of open and honest business practices, and require our employees and suppliers to be clear, open, and honest in all communications. At HFI we know our success is ultimately based upon the achievement of our clients, and our team works efficiently and honestly with each partner to achieve that success.

Eco-Friendly Solutions

Concern for the environment has always been a guiding principle for HFI. Realizing we have only "One World" and that global climate change is one of the most challenging issues of the day; HFI attained Bluesign® certification in 2008. HFI continually strives to provide the most eco-friendly textiles possible, using the most advanced environmental solutions in the marketplace. We work to make sure that our partners end up with great garments that perform in the most extreme environments, while still preserving the environments they are made to be worn in. To this end, we are proud to offer our greenest textile yet: 3X Green, a perfect eco-friendly high performance solution.

If need further information, please visit www.hungsfortune.com

Varied Wise

An Expert in Specialized Clothing

Varied Wise International Co. is a professional manufacturer of sportswear with special expertise in seamless running + biking + yoga wear, compression wear and Merino Wool thermal underwear.

After two decades’ experience of working with top sports brands, the company’s work team is well trained to analyze latest market info and provide both ready-made apparel and customized services. Adopting state-of-the-art yarns and fabrics combining with its unique seamless sewing technique to create ergonomic and comfortable styles, Varied Wise makes sure that every piece of its products is of top quality through a strict testing and examination procedure.

Working with worldwide designers in every new season, Varied Wise is able to constantly update product offers which always get thumbs up from its sport-loving clientele!

If need more information, please visit www.facebook.com/Variwis; www.variwis.com.tw

J. S. N. International, December 2014 39