



Taiwan Textile Research Institute (TTRI)
Intelligent Technologies and Sustainable Innovation



The exhibition of TITAS 2016 will be based on "Intelligent Technologies and Sustainable Innovation" to organize three areas:

- Innovative and Pilot Area
This area will present the textiles of smart & environmental performance, textile clock, materials & applications of graphene & polyimide, and breathable & waterproof textiles.
- R&D achievements of Technology Development Programs (TDPs)
This area will display the R&D achievements of TDPs which are sponsored by DOIT of MOEA, including

novel nylon, multicolor segment wicking textile, functional composite nonwoven, energy-saving shirts, textiles functional processing technology, and abrasion-resistant textiles.

- Value-added textiles Area
This area will display textile information integration system and products, including high-speed commingled filament elastic textiles, digital printing & LUMI LONG textiles, the testing and certification in functional textiles and Textile Net in Taiwan.

For more information please visit the Booth M136.

New Taipei City Functional Textiles Plus Fashion Development Project

According to the Economic Development Department of New Taipei City Government, there are over 2,100 textile and apparel companies in the city, and the number is still growing.

The New Taipei City Government has launched the Functional Textiles plus Fashion Development Project of New Taipei City in order to facilitate the integration of local functional textile industry and augment its international exposure, with a further purpose to afford the opportunity for industrial

transformation and sustainable development.

The project intends to explore new operation model, strengthen the function+fashion collaboration inside the local textile value chain, and expand international market for innovative textiles.

Activities include: All Magic Sports, Ever Shine Y&F, Fortune Textile, Grand Textile, Grandtek, New Wide, Ruyi Fa, Texxar, Unique Way and Wideplus.

For more information please visit the Booth N814.

Taiwan Garment Industry Association

Join the Festivities at TITAS 2016

With a long-term goal to establish and promote a joint brand for Taiwan's apparel, Taiwan Garment Industry Association, led by Chairman Lin Rue-Yue, has been actively working on building up an optimal apparel value chain by incorporating the strength of its membership in order to shape Taiwan into a top quality apparel supplier in the world.

For TITAS 2016, the exhibits organized by the Association will showcase the fashion power of

its members wrapped up into two categories, fashion glam and at leisure. Some companies showcase their brands production highlighting Taiwan's trendiness, including DA. AI Technology, Minkwood International, Lian Garment, Texma International. Additionally, some companies present the strength of Taiwan sport and outdoor wear, such as Happy Plastic, Tex-Ray, King's Metal Fiber, Hansc, Feng Shyang.

For more information please visit the Booth M336.

Taiwan Wool Textile Industrial Association

Showcasing the Innovation Products

In order to assist the industry out of the haze, first, the Wool Textile Industrial Association starts actively to assist its members to participate in international exhibition since 2004. The members can grasp the trend of the international fashion, and learn the advanced technology at the same time. In recent years, the application of wool in textile production has a stunning development. Its unique and superior function has become one of the primary choices as the materials in fashion and outdoor-wear markets.

To keep track of the trend development and latest technology of wool textile, the Taiwan Textile Industrial Association holds a presentation event of the innovative wool textile products trading (from 10:00 to 12:00 on October 19th at 402 meeting room) during the

TITAS 2016, for driving industrial development, building cross-industry alliance, and developing the high value-added products. The association invites Mr. Jimmy Chu, the Technical Officer of the Woolmark Company to introduce "Merino Woven Innovation" and Mr. Chase Wong, the Executive Vice President of the Chia Her Industrial Co., Ltd. to share the latest development of Innovative performance wool NwoolTec 3.0. Furthermore, all the participating companies jointly showcase new technology and innovative products at this industrial platform. Welcome brand developers, distributors and traders as well as Taiwan's textile manufacturers to join.

For more information please visit the Booth N614.

Southern Taiwan Textile Research Alliance

Showcases Cooperative Innovation Textile Products

With collaborative efforts of research institutions like the Industrial Technology Research Institute and the textile industries in Tainan City, Southern Taiwan Textile Research Alliance (STTRA) is having its 10th anniversary since establishment.

This year, under the leadership of Chen Fu Chuan, Board Director of Hermin Textile Co., Ltd. and the common philosophy of "Cooperative Innovation" in STTRA, all member companies have created a new prosperity for the Taiwan textile industry by using their robust innovations on R&D and capabilities on manufacturing process, coupled with aesthetic designs.

11 Alliance member companies invited to attend this Exhibition will present their products developed with innovations to the participants of this Exhibition, which hopefully will promote more co-developing opportunities for the textile industry with other different business sectors. They are Junmay Label, Tohitomo, Calphil, HerMin Textile, Zhan Yi Science & Tech, XinChangHua Label, True Young, Nan Pao Resins, Welsum Technology, Yessing Machinery, Everlight Chemical.

For more information please visit the Booth N114.



President Tsai Opens TITAS 2016

and Praises the Renewed Energy of the Industry

Organized by the Taiwan Textile Federation (TTF), the Taipei Innovative Textile Application Show (TITAS) celebrated its 20th anniversary by having a grand opening at the Taipei World Trade Center Nangang Exhibition Hall on October 17th. To show the government's support for Taiwan's textile industry, President Tsai Ing-Wen made a special appearance at the event and cut the ribbon together with TTF Chairman Chan Cheng-Tien, Formosa Plastics Group Chairman William W. Wong, Far Eastern New Century Chairman Douglas Hsu, Minister of Economic Affairs Chih-Kung Lee and Deputy Director General of Bureau of Foreign Trade David Hsu.

According to TTF Chairman Mr. Chan, TITAS marked its record-high scale this year in terms of number of exhibitors, booths and brand buyers invited since the Show's debut in 1997. Totally more than 800 booths by 380 exhibitors and

nearly 100 leading brands participated the Show. Mr. Chan emphasized that Taiwan's textile industry is by no means a sunset industry but a successful transformation model by incorporating traditional industry with hi-tech R&D. The fact that 90% of the performance fabrics used by American sports and outdoor brand Under Armour come from Taiwan indicates Taiwan's vital position in the international supply chain of functional textiles.

In her remarks, President Tsai recognized the importance of Taiwan's textile industry as a pillar industry to Taiwan's economy by offering a fully integrated value chain and generating more than US\$200 billion in foreign exchange over the past 20 years. She especially pointed out that textiles made in Taiwan appeared on the team jerseys of at least 10 nations in FIFA World Cup 2014, so were those sponsored

by sportswear big names at the Rio Olympics this year. President Tsai further stated that TITAS is an important platform in providing the energy to move the industry forward, from sportswear and outdoor textiles, to functional textiles merging fashion and sustainability, and now toward a world of cross-industry, multi-objective smart textiles.

Accompanied by Mr. Chan, President Tsai visited the Show and examined the innovative products developed by Formosa Plastics Group, Far Eastern New Century, Ray-Tex, Everlight, King Whale, Jintex, New Wide, Eclat and Tri Ocean. She also took the chance to step into the New Taipei City Pavilion of Functional & Fashion Textiles, as well as stands of Taiwan Textile Research Institute and various textile associations. President Tsai encouraged everyone to strive for more innovation and promised that the government would work together with the industry for a new textile era.



Sponsoring Authority



Organizers



Analysis of Industry Trends >>



Sustainable Textile Products

Extension of the Spirit of Paris Agreement on Climate Change

Paris Agreement on Climate Change, the agreement that will work to limit global warming by 2°C and will take effect on November 4, 2016 was already ratified by more than 70 countries. Eco-friendly textile has been a key trend in the development of textile products. Taiwan's textile industry understands the importance of preserving the environment; consequently, the industry has actively worked with partners in the supply chain to develop eco-friendly products while making sure the production processes produce less carbon footprint and leave less impact on the rising global temperature.

Zero Discharge of Hazardous Chemicals (ZDHC) is an organization formed by 22 name brands and retailers that include adidas, PUMA, H&M, Inditex, Gap, Burberry and more to promote toxic-free processes and toxic-free emission.

Jintex was first to receive bluesign® certificate for over its 150 products. It was also the first Asian member to join ZDHC. Jintex is a key manufacturer of chemicals for textiles and leather products. It has also been working on developing green chemical products for years. In recent years, Jintex has introduced numerous toxic free eco-friendly products and miDon® eco-friendly biopolymers.

Everlight is also an important ZDHC member. It has also joined the bluesign® certification system. In the past few years, Everlight has pioneered in adapting green accounting system, taking environmental cost as one of the most important basis for the company's decision-making process. Everlight prides itself to be the "doctor of dyeing facilities" and has introduced Everjet® RT&A, a digital print ink and Evereco®

PUR (High Performance Reactive PUR Adhesives) is suitable for functional textiles.

Formosa Plastic Group has devoted heavy investment in development of sustainable processes. AQUAOFF by Formosa Taffeta offers Pigment Prints that are made through waterless eco-dyed technology. By eliminating steaming and washing steps, the process saves water, reduces pollution and contamination.

ECO-Ior® by Tex-Ray is a water-reduction dyeing process that drastically cuts down the consumption of water and energy and carbon emission for a more balanced economy. The cotton textiles made by eco dyes only need to be colored and washed in low temperature. The coloration process drops down in half. These fabrics meet Oeko-Tex® and Bluesign® standards on low pollution and



have been certified for its low carbon footprint. These innovative developments further distinguish Tex-Ray in the market.

To reduce carbon emission, Nan Ya's BIOPET replaces traditional petro-based ethyleneglycol with BIO-EG as its raw material, an ingredient converted from molasses – a by-product during sugar making process – through a fermentation process. By doing so, BIOPET not only preserves the good properties of polyester fiber but also reduces 15% of carbon dioxide emission compared with polyester fiber using traditional raw materials.

Smart Garments and Smart Textile Products

As the digitalization and cloud technologies become more mature, Taiwan's textile industry promptly responds to the changes and have developed products with 3C technologies. These products utilize applications from IT industry, healthcare, home care, sports and safety protection so users can access to better life style. These are the directions of innovations from the textile industry. At TITAS this year, more vendors have introduced new generation of smart garments and applications.

FENC (Far Eastern New Century) introduced the new generation of smart garment in its DynaFeed. The product has received the recognition of ISPO Award 2016/17, known as the Oscar of sportswear. By combining advanced biosensor technology solutions with FENC innovative ultra-thin conductive carbon nanotube based polymer film, DynaFeed™ accurately measures vital heart rate and motion data in a simple and cost efficient manner, eliminating complexities and high costs of additional gadgets. FENC offers a new way for health management and training in the future.

This is the first time Formosa Taffeta introduces smart garments at TITAS. Products incorporate principles of weaving technologies and link them to APP bluetooth applications to improve wearable technologies. Current features include thermal heating control and color LED display. These features can be used for safety protection or customized according to customer's

needs. Applications are wide, including entertainment uses or health care applications.

Tex-Ray started its development of smart garments long ago. Now it offers vertically integrated wearable technologies with smart clothing that combines technologies, fashion and functions. Its products can be used for outdoor activities, sports training or home care. Tex-Ray has successfully utilized the advantages of chemical engineering, materials, electronics, and medical care so the textile products can be the vehicle to a smart life style.

On smart textiles, Asiatic Fiber Corporation has steadily invested in the

Market with High Potentials

development of innovative synthetic fibers. In 2016, it introduced the new iQmax, a smart textile brand that features wearable technologies by incorporating high-tech fibers with digital applications. Its wearable and sensor products take the concept of Connector + Conductor. The soft textile can provide a steady charging and data transfer. They are insulated in PU so they can be washed or dry cleaned.

Asiatic Fiber Corporation also introduces top-grade LED luminous products that are visible up to 100M at night. These are soft, comfortable, lightweight, waterproof, washable, and can be bended repeatedly. Heating

products offer temperature setting and safety designs. The high-tech complex fibers can transfer heat. The warming effect can be felt within 10 seconds after being turned on.



Hitex Textile

Higher Your Vision

Hitex Textile has been specialized in performance textile field for over 15 years. With product certificated by bluesign®, GRS and Oeko-Tex® standards. Hitex sells to a worldwide market including Europe, USA and Asia and enjoys a good reputation.

They are offering a wide variety of Taiwan original performance fabrics including waterproof/breathable, ultra fine denier, soft shell - 2/ 3 layers, and city casual for quick dry/Anti-UV are all equipped with functional finishing (i.e., digital/reflective printing, emboss, color coating/lamination). Moreover,

performance work wear is another rising-star product. Their fabrics for work wear have been passed En 20471, EN 343, EN 1149, EN 11612, and ANSI 107.

In order to meet customer satisfaction, they are concentrating on innovation, new technology, and quality. For TITAS 2016, Hitex textile will focus on eco-friendly product such as PFC free and recycled material. Furthermore, regarding outdoor wear, they emphasize on anti-insect and reflective function.

For more information please visit the Booth M926.

GrandeTex

Green Energy to Push Environmental Protection MIT

GrandeTex Development Co., Ltd. is a fabric supplier, located in Taipei, Taiwan. As a global advanced fabrics supplier, it well experience specializing in the functional fabrics production for year-round sportswear/outdoor apparels.

This company provided production, research and development of chemical fiber textile; manage from manufacturing to dyeing and subsequent processing. Production items include Nylon, Polyester, and chemical mixed weave textile, suitable for ski/snow jacket, workwear, multi-sports wear and leisure jackets as well. They have

always been dedicated to meeting customers' requirements and providing high quality products through strict inspection. With years' experience they produce higher technic for functional fabrics, such as waterproof-breathing coating, breathable lamination, wicking, and UV-cut functions that have been developed based on customer needs. Recent years, pursuing functional issue is not the priority but how to integrate function with life is more significant.

For more information please visit the Booth N904.

Ho Yu Development of High-end Industrial Textiles

Ho Yu Textile especially introduced the latest printing technology, the characteristics is that it can be printed under room temperature, it will not destroy the fiber structure, it's suitable for nylon, wool, cotton and other materials, it uses gravure printing or sublimation transfer printing at room temperature which makes printing pattern more layered, richer and much better soft hand feel than by traditional printing technology.

Comparing to the traditional printing technology the new printing technology is more economize in water consumption, unlike the traditional printing technology need an amount of water to rinse and clean the printing screen, and all the dyeing receipt are made of water base solvent, its toxic free, environmental friendly and more – it fit the concept of bluesign® and eco-friendly trend.

For more information please visit the Booth N810.

Sheico Group

The Expert of Moisture Management

Since 1968, Sheico has been manufacturing neoprene and fabric for water and land sports apparel. That makes moisture management technology the most competitive ability of Sheico. With 11 production facilities in 5 different countries and fully vertical-integrated ability, their fabric brand Spanflex™ is dedicate to provide innovative functional knitting fabric solutions and high quality products. Sheico is constantly being green to protect our earth. They have been developing rubber recycle technology, also their production facilities are actively certified in compliance with OEKO-TEX® and bluesign® standards. Its goal is to deliver first class service with customer satisfaction.

For more information please visit the Booth M806.



<< Highlights of Exhibition

Chia Her

New Functional Wool Products NwoolTec 3.0™

Chia Her is a R&D oriented and vertically integrated textile manufacturer that specializes in wool spinning, cotton spinning, twisting, weaving, dyeing, finishing, printing, coating, laminating and special finishing. Located in Taiwan, Chia Her develops and supplies high value-added and innovative products to global leading brands in outdoor, sports, fashion, home and industrial materials etc. Their only mission is to provide customers with the finest quality products, excellent services, and reliable delivery at a competitive price. Today, Chia Her is internationally certified by OEKO-TEX®, ISO: 14064,

and Bluesign®, the best example of environmentally friendly manufacturer.

Powered by innovation, Chia Her develops the newest combination of technology R&D and functional wool, marking the initiation of NwoolTec™, which appeals to sports, outdoor, and functional fashion markets. Chia Her's newest innovation, NwoolTec 3.0™ is comprised of 5 major themes, include Proof, Drycool, Fresh, Heat, Combat, emphasizing a core performance when combined with wool.

For more information please visit the Booth N1110.

IFabriX

Full-fabric Manufacturer

IFabriX was established in 1950 and has been in the forefront of the textile supply industry for over two generations. Today, it is a vertically integrated textile manufacturer and is established to meet the present demands of international and domestic fabric sourcing. Its reputable organization provides diversified value added and functional fabric, either structural knits or woven in all types of finishes for indoor & outdoor sports apparels, targeting on the latest development of Fashion Tech and

Athletic leisure fabric, and mostly applied with branded or local performance hangtags.

Its consistency and stability has earned accolades from a diverse clientele across Europe and North America. Dedicated to excellence and innovative solutions, their products meet the most stringent of customer requirements in both design and performance.

For more information please visit the Booth M836.

Tai Erh

Trusted by its Customers

Tai Erh Enterprise was founded in 1977 in Taiwan by Mr. Tzung-Jen Chuang, C.E.O, aiming to offer customers a unique textile experience by providing the utmost service combined with innovation and superior product quality.

They have productions in both Taiwan and China and specialize in knitted fabrics and garments for a range of apparel uses including swimwear/ beachwear, sportswear, yogawear, lingerie and jersey wear. Their business is built on sustainable growth, with the focus on customer-orientation and establishing long-term business

relationships with its clients.

Its offer both ODM and OEM services to their clients in the production of fabrics and garments for swimwear/beachwear, sportswear, yogawear and casual wear. Their product range includes fabrics made with Viscose/Rayon, Bamboo, Polyester Bamboo Charcoal, Viscose Bamboo charcoal, Cotton, Polyester, Spandex/LYCRA® and Nylon, and provide functional fabrics, printed fabrics, embroidery fabrics, foil-print fabrics and embossed fabrics.

For more information please visit the Booth N510.

