

TITAS 2020 Create New Business Opportunities for Post COVID-19 Era, Drive and Upgrade Five Major Exhibition Themes

Organized by the Taiwan Textile Federation (TTF) and under the auspices of the Bureau of Foreign Trade, Ministry of Economic Affairs, Taipei Innovative Textile Application Show (TITAS) enters its 24th edition this year. Opening on October 13th, 2020 at Taipei Nangang Exhibition Center, Hall 1, TITAS will be welcoming 356 exhibitors from 11 countries and regions including Taiwan, U.S., Sweden, Germany, Switzerland, Japan, Korea, Vietnam, Hong Kong, Singapore and China in total of 803 booths. To show the government's full support, William W. Wong, Chairman of Taiwan Textile Federation, Douglas T. Hsu, Honorary Chairman of TTF, Lin Chuan Neng, Vice Minister of Ministry of Economic Affairs, and Lee Lien-Chuan, Vice Minister of Ministry of Culture attended the opening ceremony with representatives from textile industry and associations.

Leading companies in Taiwan's textile industry that will be attending TITAS 2020 include Formosa Plastic Group, Far Eastern New Century, Eclat Enterprise, Tex-Ray Industrial, Chia Her Industrial, Shinkong Synthetic Fibers, New Wide Enterprise, Yi Shin Textile Industrial, and more. 24 key textile-related associations and research institutions will be participating in the event as well, including Taiwan Textile Research Institute, Southern Taiwan Textile Research Alliance, MIT Underwear Innovation Alliance, ITRI Material and Chemical Research Laboratories, Taiwan Technical Textiles Association, and trade organizations and associations representing various segments in Taiwan's textile industry, such as Taiwan's spinner, silk and filament weaving, weaving,

filament fabrics printing sectors, dyeing and finishing industries, knitting industry, wool textile sector, sweater industry, hosiery manufacturers, glove manufacturers, hat manufacturers, towel manufacturers, zipper manufacturers, carpet manufacturers, non-woven fabrics manufacturers, and Taipei Sewing Machine Associations.

In the opening remark, Chairman Wong stated that Taiwan's textile industry has evolved to be a highly technical industry. Its innovative functional textile products have become the prime choices for international leading brands. In response to the growing consciousness of impact of global warming and as we move toward Industry 4.0, the development of eco-friendly textiles, automated machineries, and sewing facilities are the key items for TITAS this year. The confrontation between U.S. and China and COVID-19 pandemic have brought serious impact to Taiwan. In this critical time, every cautious step taken by the government must include consideration for pandemic prevention and economic development.

ROC Vice President Lai Ching-te mentioned that TITAS is the only international class of textile exhibition in Taiwan. It is also a platform from Taiwan Textile Federation(TTF) as a textile forum to assist our textile enterprises in promoting innovative textile applications, just like the mask materials, meltblown nonwoven fabrics and isolation garments arranged by Formosa Plastics Corporation, Protective clothing and jerseys worn by NBA teams are fabrics made of recycled PET bottles from the Far Eastern New Century.

Vice President Lai Ching-te encouraged the

textile industry in his remarks. He felt that although the pandemic brought severe impact to the health of people and the economy, it was also a window of opportunity for Taiwan. Among the essential items for pandemic prevention, facial masks, protection gowns and isolation garments are textile products. The textile industry has become the key sector during this turbulent time. Vice President Lai expressed his wholehearted appreciation for these vendors.

Vice President Lai also suggested that the French Open should use Taiwan made functional textiles for players and Vice President Lai put forward the three major achievements of "all digital textile value chain", "fashion textile ecosystem", and "sustainable textile supply center", hoping to form another new industries for "anti-epidemic substance" with safety, fashion and function. And under President Tsai Ing-wen, "High-end R&D and Manufacturing Center" concept, let Taiwan's textile industry go further. This year's TITAS Show is a series of events of "2020 Taipei Fashion Week SS21". The Ministry of Culture has specially combined TITAS pioneers and designers to cooperate with Taiwan's functional fabrics with fashionable aesthetics, and demonstrate the innovative materials and technologies of



the textile industry through dynamic exhibitions. Vice President Lai had attended this fashion presentation.

After attending the opening ceremony, Vice President Lai visited the key companies participating in the event in the company of William W. Wong, Chairman of Taiwan Textile Federation, Douglas Hsu, Honorary Chairman of TTF, Hong Zhen-Hai, Chairman of Eclat Textile, Zhan Zheng-Tian, Chairman of Yi Shin Industrial, and Ray Lin, Chairman of Tex-Ray Industrial.

This year, TITAS focuses on 5 themes: Functional Applications, Sustainability, Personal Protective Textile, Smart Textile, and Intelligent Manufacturing to feature the latest results from Taiwan's industry. During the event, organizers have scheduled exciting programs include the highly anticipated seminars such as presentation for smart and green textile materials, function and fashion design for medical supports, a step forward transformation in Taiwan textile industry.



Vice President Lai Ching-te, Vice Minister Lin, Vice Minister Lee, Chairman Wong, Chairman Hsu visited Formosa Plastics Corporation



Vice President Lai Ching-te, Vice Minister Lin, Vice Minister Lee, Chairman Wong, Chairman Hsu visited Far Eastern New Century

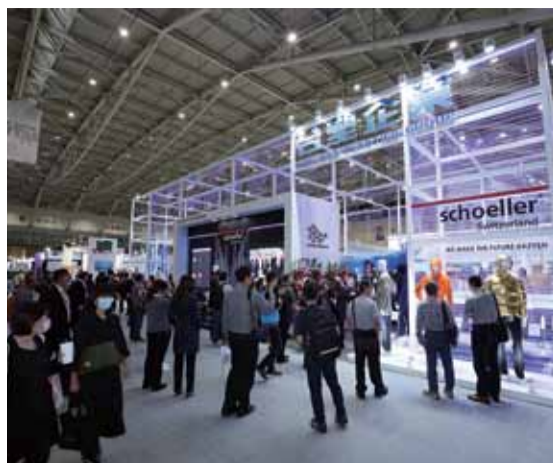


Vice President Lai Ching-te visited Formosa Plastics Corporation's products



Vice President Lai Ching-te visited Far Eastern New Century's products





FORMOSA PLASTICS GROUP Smart Textile, Functional Protection

For TITAS 2020, Formosa Plastics Group (FPG) carries the theme of "Smart Textile, Functional Protection" for its exhibits to reflect its determination to implement a green policy while presenting high-quality, high-tech and high-value textiles.

The FPG pavilion at TITAS 2020

is a joint exhibition from Formosa Chemicals & Fibre, Formosa Plastics, Nan Ya Plastics and Formosa Taffeta. The pavilion features seven image areas – Schoeller, Fashion and Down, Sportswear In Style, Bio-friendly and Sustainability, Industrial Materials and Protective Materials - all to highlight

the Group's latest textile collections and their comprehensive applications in fashion, sportswear, outdoor and industrial sector.

FPG's fiber lines cover rayon, polyester, nylon, polyamide, elastic, carbon, and functional fibers, all serving as materials for Formosa Taffeta to

develop into sophisticated fabrics by incorporating advanced green and performance technologies. Please visit our Pavilion and experience for yourself the superior quality and technology the Group has to offer.

For more information, please visit the [Booth M120](#).

FORMOSA PLASTICS (FPC)

● Tairyfil carbon fiber

Tairyfil carbon fiber developed by Formosa Plastic is a carbonized filament that can be used in a wide spectrum of applications, including sports goods, wind turbine blades, automobile, aircraft, vessel, CNG tank, cable core and construction reinforcement.

With annual production of 7,650

tons, Formosa Plastic is the sixth largest manufacturer of carbon fibers. Tairyfil fiber is highly compatible with thermoset plastics and thermoplastic resin. Also, the new carbon fibers can be used for customized solutions and are suitable for uses in high pressure gas cylinders for fuel-cell electric vehicles.

FORMOSA TAFFETA (FTC)

● Developed high-end functional fabrics

FTC deepens the collaboration with Schoeller Switzerland through investments in order to further develop high-end functional fabrics. FTC and Schoeller's Joint efforts in innovation, research and development, and technological advancements will expand FTC's global market scope, bring opportunities to introduce more high profit-margin and high valued products, and better fulfill the needs of different clientele.

● A+ Smart Thermoregulation Clothing

Is the new generation textile product from cross-industry collaboration project supported by Department of Industrial Technology, Ministry of Economic Affairs, combining efforts from the textile, telecommunication, electronic and garment industry. Hand-held devices such as mobile phones, tablets, and smart watches can be used to link with these smart garments through wireless connection to monitor emission of heat and lights as safety warning signals.

● BOOMETEX®

Recycled polyester, cationic dyeable polyester fiber and eco-friendly nylon fabrics use PET, recycled polyesters and recycled nylons as materials. Bio-friendly water repellent and breathable membrane such as PFOA/PFOS Free are used to produce a series of high-

tech and highly value added fabrics.

● Ocean Plastic Recycle Yarn

In response to collaboration between adidas and Parley NGO, FTC uses plastic waste materials from the ocean near Maldives and Sri Lanka and recycle them into fibers. FTC then produces these into recycled fibers.

● abletex®

Ulite super permeable light waterproof fabric offers water-repellent, wind-proof, absorbent, and water-proof properties and brings a soft touch. It's a fabric ideal for light windbreaker for outdoor or city life.

● Permacool® & Perforation fabric

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, 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.

● NEGA-STAT®

A compound treatment that was developed in response to the pandemic. A pandemic-prevention pack was also developed, including trench jacket that can be washed repeatedly, protective pants to protect personal safety.

FORMOSA CHEMICALS & FIBRE (FCFC)

● FCFC Nylons

FCFC incorporates functional synthetic materials and dispersion technology to develop functional low-denier filaments with softness, breathability, vibrant color effects that can make high quality fabrics. These include nano, thermal, cooling, antibacterial filaments. The first three can meet the demand for extreme weathers. The fourth filaments are added with silver ions for the antibacterial properties. In time of COVID-19 pandemic, these will be very helpful in the future. Also, Thermal and cooling antibacterial filaments can be fused with high-ratio PU fabrics for compression garment market.

● Post-COVID lifestyle

FCFC responds to the government's campaign for "Post-COVID lifestyle" by

introducing chitin-derived fibers and compound fibers with antibacterial, mildew-proof, deodorant features with proven antibacterial results up to 99%. Besides protecting personal wellbeing, the organic and biodegradable properties are friendly to the environment. Applications include personal linen, bath towels, bathrobe, garments, table cloth, facial masks, and garments for medical professionals.

● Low-odor meltblown PP

The material by Formosa Chemicals & Fibre is used as a mid-layer for facial masks to filter out virus and bacteria. FCFC is the main supplier of PP for Taiwan's PP/PE cotton. FCFC uses specialized technology to produce ultra-soft PP material for PP/PE cotton, adding extra comfort for wear of facial masks.

NAN YA PLASTICS (NPC)

● SAYA Recycled Polyester Filament

Nan Ya is actively developing recycled oceanic filaments and collecting overstocked raw fabrics, colored fabrics, and trimmings to remake them as fibers. The new SAYA is the starting point to the circular economy.

● TOPFRESH anti-bacterial fibers

Developed in response to meet the demand for medical uses, TOPFRESH anti-bacterial fibers is made from zinc oxide compound anti-bacterial technology that is proven to limit the growth of Staphylococcus aureus and Pneumoniae. TOPFRESH fibers meet the AATCC 100 and ISO 20473 tests to prove excellent antibacterial quality after 50 washes.

● CHROMUCH dope dyed polyester

CHROMUCH with propriety spinning technology locks the coloring agents tightly inside the fibers. The colors

remain high in fastness even from high temperatures. Selection of colors is 82% more than traditional color choices. The color fastness for CHROMUCH is at grade 4 and above. Reflective yarns made by CHROMUCH technologies that meet the high standards for high visibility clothing also show high washing and light color fastness - perfect for work and sports garments.

● Comfortable elastic materials

SPANFIT, made by using a special filament yarn spinning technology, has a spring-like structure that gives textiles an elastic, wrinkle-proof and comfortable texture. In addition to the existing SPANFIT-leisure, SPANFIT-elegant, and SPANFIT-carefree product lines, Nan Ya introduces the newly developed SPANFIT made from recycled PET bottles. Also the new SPANFIT-best product lines that are comfortable and fresh in touch, offers very competitive price point.



FAR EASTERN NEW CENTURY Fully Support for Global Medical Care

Far Eastern New Century has the manufacturing advantages and superb research and development capabilities of vertical integration in the upstream and downstream. In recent years, it has successfully developed various new products and functional fabrics, and has become a core supplier of internationally renowned apparel brands.

● FENC® Non-Fleece

FENC's Knitting and Dyeing SBU has lately launched a new product FENC® Non-Fleece, using 3D knitting technology to incorporate functional yarns into fabric structure to achieve the same warming effect created by peach finish or brushing process without generating microfibers. FENC® Non-Fleece was awarded as a "TOP 10" product at ISPO TEXTRENDS 2020.

● FENC® Hycare Staple Fiber for Hygiene Application

FENC has broken through manufacturing process limitation to develop ultra-fine denier fibers to be used for diaper and sanitary napkin with extra soft touch.

● FENC® Hycare Staple Fiber for Facemasks

FENC spares no effort in providing fibers for facemask during covid-19 pandemic. For hydrophilic fibers used for the inner layer of facemasks, they provide up to 600 tons per month, equal to material consumption of a billion facemasks.

● FENC® TOPGREEN® Stretchable Filament

FENC® TOPGREEN® Stretchable Filament provides comfort and stretch without using chemical processing and is 100% post-consumer recycled PET based. It is an environmentally sustainable material adopted by Lululemon and many other major brands.

● 2019/20 Football Clubs Jersey

2019/20 Football Clubs Jersey is made from recycled polyester yarns. Its airflow design reduces wind resistance effectively and its superior wicking performance facilitates maximum comfort during training and games.

For more information, please visit the [Booth M106](#).

NEW WIDE Highly-Praised Multi-Functional Protective Fabric

AT TITAS 2020, New Wide is excited to present their latest textile developments:

● Protection

1. Antibacterial series: The Green Defense fabric contains natural antibacterial extracts. The Soft Cool Clean fabric contains special antibacterial factors for outstanding antibacterial effect.
2. XT2 series: Fabric with deodorization, fast sterilization and long-lasting antibacterial effect.
3. Odor control series: Fabric using special deodorant yarn and spandex to keep long lasting freshness.
4. Graphene series: Fabric with body temperature regulating, blood circulation promoting and antibacterial functions.

● Stay home style

The new normal of working from home has driven consumers' demand

for decent loungewear with multi functions. New Wide offers fashionable as well as comfortable stay home style fabric series.

1. Hand feel+ series: Tencel/Modal/Rayon/Lyocell/Acetate blended fabric with unique finishing treatment enhance comfort and softness. Incorporating the 37.5™ technology to help your body manage the moisture in your microclimate.
2. UMORFIL® series: Fabric using materials derived from recycled seafood wastes, having passed medical testing for skin sensitization and irritation to provide a high level of comfort.
3. Cooling series: Fabric with cooling yarns and breathable structure design to improve wicking performance.
4. Wool series: moisture control, thermal, quick drying and soft feel. Please visit the [Booth M812](#).

ECLAT

Eclat is the world's most leading athletic textile design and apparel maker. With diligence, Eclat creates value and sets industrial benchmarks that redefined markets, and asserts their partners as leaders. A comprehensive service is provided; from knitting and dye to garment and logistics. Their facilities throughout Asia are certified by different institutions, taking responsible actions with regard to people, the environment and resources. They ensure the sustainability performance

Showcasing Soffform and Innovative Functional Fabrics

of their products and people meets the highest standard in order to maintain as a sustainable business model in the industry.

Soffform is designed with a reason in mind, they developed a new value proposition: "Materials with purpose" to captures the essence of Eclat as a company and its current and future capabilities in activewear. The Soffform fabrics are designed for soft, lightweight and wooly with thermal property. Please visit the [Booth M820](#).

TEX-RAY

Actively Protect the Health of Epidemic Prevention Heroes

During the COVID-19 pandemic, Tex-Ray's R&D team has also been working in providing potential solutions for life in the post-covid-19 era. Some of the results include T-Fresh Antimicrobial Materials series to confront the ubiquitous pathogens in their living environment; Photocatalytic series which infuses special photo catalyst powder into polyester fibers, absorbing light and generating oxidation reaction to achieve antimicrobial and odor control ability; Metal Infused Antimicrobial Fiber series which incorporates specific metal ion into fibers to absorb and decompose bacteria, and what's more,

the antimicrobial feature is durable and the fiber is machine washable.

Tex-Ray's newly launched HD ECOPRINT, a high-resolution eco-friendly printing technology based on the sustainability concept, reduces energy consumption and greenhouse gas emission during the printing process to maintain ecological balance and lessen environmental impact. It also enjoys the advantages of delicate print effect, keeping the moisture absorption and breathability of fabric, and high applicability to different materials including natural and synthetic fibers. Please visit the [Booth M419a](#).

YI SHIN

Back to Nature, Live with Fitness

Yi Shin joins TITAS as an exhibitor for the first time this year. Under the theme "Back to nature, live with fitness" and taking a miraculous approach, Yi Shin used its new technical and eco materials including Magic BES, Magic CAC, Magic All Weather and Magic Recycle to display at the show a full range of products from yarns, fabrics to apparel across areas of sports, leisure and business.

In order to reduce the environmental burden for the nature, Yi Shin offers a biodegradable enhancement solution, BES, as an ideal way to protect the earth. Magic BES is a new form of

biodegradable material. Its estimated biodegradation period of time is 7 to 10 years. It can also be combined with their recycled series of products to therefore decrease the impact to the environment. Aiming at environmental sustainability, Yi Shin has developed an eco-friendly production process called "LEMTT". The LEMTT process is to save the labor force (L), reduce energy consumption (E), decrease the use of cartons (M=material), lessen the transportation footprint (T), and adjust working hours (T=time).

For more information, please visit the [Booth M719](#).



GRANDETEX

GrandeTex offers functional fabric for worker-wear, athleisure, outdoor, indoor products, aiming to develop more eco-friendly material for earth protection. "RICH-y[®]" is GrandeTex' patent for ECO innovation, which from raw material instead of chemical treatment. Permanent function of anti-bacteria, anti-odor, anti-UV, wicking, cooling keep daily wearing maintain fresh, suitable for active wear and underwear range. GrandeTex is a member of BlueSign[®] and Oeko-Tex[®] and always cooperate with qualified factories to ensure fabrics are complied with standard. With their commitment to a sustainable future, they also obtain GRS certification on Sep.2020.

GrandeTex's RICH-y[®] yarn is a successful and widely received as its

Highly-Praised High-Performance Products

anti-bacterial, odor proof, and anti-UV qualities are embedded during the production process instead of using additives, therefore more long lasting and would not create further pollution. Now GrandeTex offers another alternative - RICH-y+(Solution Dyed). These yarns are based on RICH-y[®] functions, GrandeTEX's innovative product solution dye in 2020 is an environmentally friendly technology in the dyeing process—as it produces under very low energy consumption, less water consumption and low carbon dioxide emission. It's less water waste and no chemicals in use perfect for outdoor brands that seek for eco-friendly and functional products.

For more information, please visit the [Booth M511a](#).

CHAIN YARN

365 EVERYDAY Eco-friendly

The GREENLON[®] brand was established in 2014 with the idea of reducing waste, energy and carbon emissions. CHAIN YARN developed the process of re-using materials and replaced highly polluting process to create eco-friendly textiles.

The changing weather and global warming show us how the backlash of the nature changes our lives. Creating a sustainable environment is an issue that GREENLON[®] hopes all consumers take to heart 365 days of the year, everyday as a goal. GREENLON[®] recycles fibers recycle physically to group, purify, or recycle without harmful chemical treatments in the processes to minimize waste materials from the processes. Upholding the principles of "recycling 100% waste materials" and

"minimal polymer outputs", processes are designed so all production lines emit less carbon. For TITAS 2020, in addition to eco-friendly recycled Nylon 6, the recycling technology for Nylon 66 has also made advancement.

Technology comes from humanity. So does textile products. Breakthrough of technology frees us to explore the outdoor. Climate changing creates more needs for textile products; cooling garments for the summer and warmer ones for colder weather, and the usual needs for moisture-absorbent and deodorant materials to satisfy the market demands, functional textiles are developed to bring more comfort and protection to human.

For more information, please visit the [Booth M413a](#).

SINGTEX

Post-Epidemic Era

SINGTEX Group, focusing on "Running a business that warms the heart". Due to COVID-19, the demand of Personal Protective Equipment (PPE) has suddenly increased, which cause the shortage of PPE. Ministry of Economy Affairs gathered SINGTEX MAGICTEX and other Taiwan Textile factories to form "Taiwan Textile Team". Provide one million pieces of isolation gown to Ministry of Health and Welfare. At the beginning of the epidemic, SINGTEX obtained Pharmacist Manufacturing License, Pharmacist Selling License and Level1 Medical Equipment License. The PPE series, adhering to the protection of the environment, the PPE fabric can still maintain protective effect after 30 times wash, which can reduce the pollution of the non-woven disposable isolation gown. Through the hot-melting tape technology, it can prevent blood and viruses from penetrating through the sutures, achieving a higher level of protection and manufacturing speed. In addition, isolation gowns of different colors are also provided to facilitate the management of medical units.

During the epidemic, in addition to the protection of medical personnel, daily

home protection is also indispensable. SINGTEX develops S.Café[®] ICE-Café[®] Silver fabric. S.Café[®] yarn is known for its odor control, quick-dry and UV protection. The brand-new S.Café[®] ICE-Café[®] Silver fabric is the combination of S.Café[®] Silver and ICE-Café[®], its cool touch can effectively reduce the body temperature in the hot summer, saving daily energy and achieve permanent antibacterial effects. It is the best choice for making bedding. About the production of S.Café[®] ICE-Café[®] Silver, instead of electroplating that uses a lot of chemicals, SINGTEX uses sputtering to permanently bond silver onto S.Café[®] yarn, which is a chemical-free process.

At 2020 TITAS, they bring an environmentally-friendly upgraded AIRMEM[™] X, which combines recycled industrial waste and recycled bio-base coffee oil, can almost replace 40% of petroleum used in total; AIRMRM[™] COLORSHELL, with the solution dyed process, not only provides a variety of color options and saves dyeing and finishing water, but also combines fashion, environmental protection and epidemic prevention in one fabric!

For more information, please visit the [Booth M614](#).

GRAND

Not just Manufacturing, but also Innovation

Grand Textile, with more than 30 years of professional technology, is famous for its ODM / OEM of functional fabrics. In addition to adhering to the spirit of excellence, the company also actively focuses on innovation and research of the product, and supported by major brands. They also develop some patent technologies such as Stone Cold[®], Coffee Charcoal[®], etc.

Grand Textile has specialized in woven fabric, knits, elastic fabric, 2-layer / 2.5-layer / 3-layer composite processing fabric, printing and other products for many years. Their production capacity can reach 2.5 million yards per month in Taiwan factory and 1.5 million yards per month in Vietnam factory. Please visit the [Booth M520](#).

CHIA HER

Green Medical Health and Safety for New Life

Adhering to the green and sustainable business philosophy, Chia Her is not only a manufacturing expert of functional wool but also an expert in filament and spun woven. They innovate, research and develop sustainable textiles using eco-friendly materials such as Tencel, recycled polyester, recycled nylon, recycled cotton, and recycled wool.

This year Chia Her stepped into the medical textiles area with their advanced technology. Their protective coverall fabric is made from biodegradable polyester, coating and laminates. By

implementing eco concept into textiles, they are committed to the development of reusable protective medical textiles.

At TITAS 2020, you will see the latest protective coverall fabric from Chia Her. Apart from the essential medical protection, they have also launched Chaser Fabric Mask which is antibacterial, breathable, washable and reusable. During a time when epidemic prevention becomes a new normal, they aim to offer not only protective but also green and fashionable products.

For more information, please visit the [Booth N1110](#).



Integrating Online and Offline Marketing for Post COVID-19 Era

In response to the trend of "contact-free" and digital commerce in the post COVID-19 era, TITAS initiated TITAS on-line catalogue. Exhibitors can upload their product photos, specification and video. The online platform allows international buyers to view the latest products, contact and inquire about product details and prices. The 7-24 services offer instant, rapid and up-close interactions.

Since the pandemic continues to spread globally, border restrictions remain. In order to ensure communication between exhibitors and international buyers, TITAS invited more than 40 brands from 15 countries

to participate in more than 300 physical and virtual one-on-one business meetings. These include: outdoor sports brand Vaude from Germany, outdoor garment brand Craghoppers from U.K., outdoor and leisure brand Royal Robbins from the U.S., and sports brand Mizuno from Japan. Also, for the buyers who cannot attend the event this year, TITAS produce live interview videos for exhibitors with innovative products and technologies to be streamed online. The videos, excellent channels of market development, can be seen on TITAS's website, Facebook, and Youtube channel during the TITAS show.

TITAS Organizes Special "Medical Protective" & "High Performance" Textile Platform

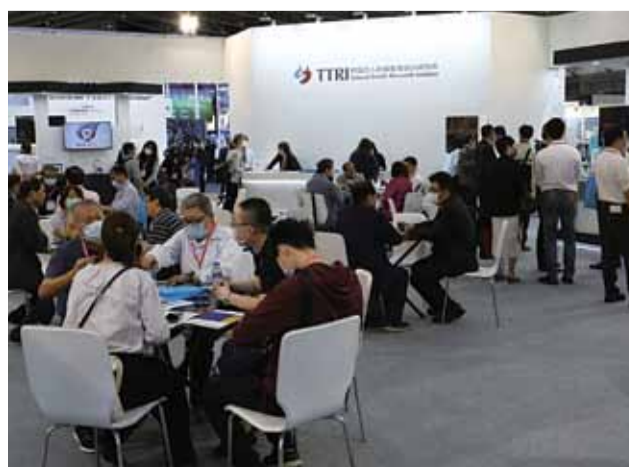
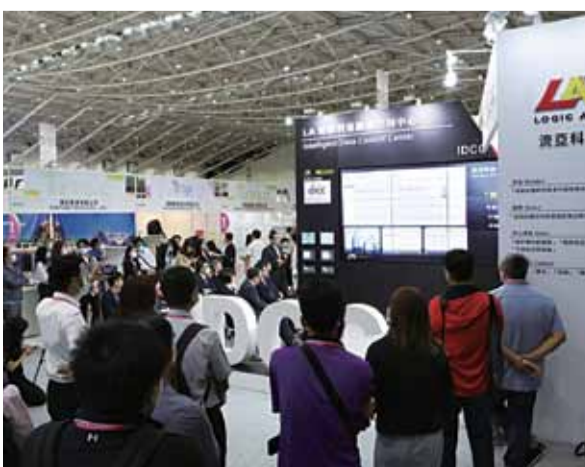
● Medical Protective Textile Joint Exhibition

TITAS organizes a special platform to feature this comprehensive supply chain in protective and isolation textile products as a best practice example to the future. Products presented include FENC[®]PPE garments made with medical protective and anti-virus fibers by Far Eastern New Century, Epidemic Prevention Travel Kit by Formosa Taffeta, innovative medical protective textiles by Eclat Textile, post-pandemic life style solutions featuring T-Fresh anti-virus cloths by Tex-Ray Industrial, biodegradable polyesters, coating and protective materials that can be reused by Chia Her Industrial, personal protective textile products featuring

sustainable SINGTEX[®] PROTECTOR PPE by Singtex, and protective surgical textiles by Asiatic Fiber.

● High Performance Textile Exhibition

TITAS organizes a special platform for high-performance textile applications for a win-win outlook for public sectors and textile industry. Products include Far Eastern New Century, BES biodegradable materials by Yi Shin Textile, functional wool textiles by Chia Her Industrial, biomimetic functional materials by New Wide Group, applications of smart textiles by PIERO PACCIO TEXTILE, bio-based coffee membraned AIRMEM[™]-X by Singtex, and safety and sustainable fashion textiles by RUENTEX GROUP.



SOUTHERN TAIWAN TEXTILE RESEARCH ALLIANCE

Fashion x Smart x Environment-Friendly

Under the leadership of Director General Yong-Ching Shen, the alliance strives to bring together collaboration in the textile industry as well as with other industries. In response to growing awareness in environmental protection, STTRA actively promotes the development of green textile materials and intelligent textile products. Since its establishment, the Southern Taiwan Textile Research Alliance has been committed to the mission "Combining the resources from the government, academic and private sectors to encourage alliances and collaborations for innovative technologies, to enhance

the R&D strength of the industry, and to accelerate the transformation of business operation for industry's sustainable prosperity".

9 Alliance members co-exhibit their latest R&D results at TITAS 2020, with an aim to seek more cross-sector collaborations during the Show.

They are: NAN PAO RESINS CHEMICAL, AUSPRING, ZHANYI SCIENCE and TECHNOLOGY, TRUE YOUNG, JUNMAY LABEL MFG., TOHITOMO, CHENG MEI LABEL MFG. CORP., CALIPHIL ENTERPRISE, YESSING MACHINERY. Please visit the **Booth N116**.

TAIWAN TEXTILE RESEARCH INSTITUTE

Disclosing Multi New Research Results

TTRI discloses R&D achievements of functional and smart textile, digital manufacturing, sustainable textiles, and value-added services.

● Functional and Smart Textiles

Functional and smart textiles include micro-nano compound nonwoven, flame retardant and abrasion resistant textiles, Protimo antimicrobial nylon fiber, medical textiles, cosmetotextile, and smart textiles for rehabilitation and motion detection.

● Digital Manufacturing

The demonstration of digital manufacturing includes textile electromechanical integration technology, digital dyeing, intelligent dyeing manufacturing-demo site,

intelligent energy-saving dyeing system, fabric/fiber image analysis solution, and textile digital inspection technology.

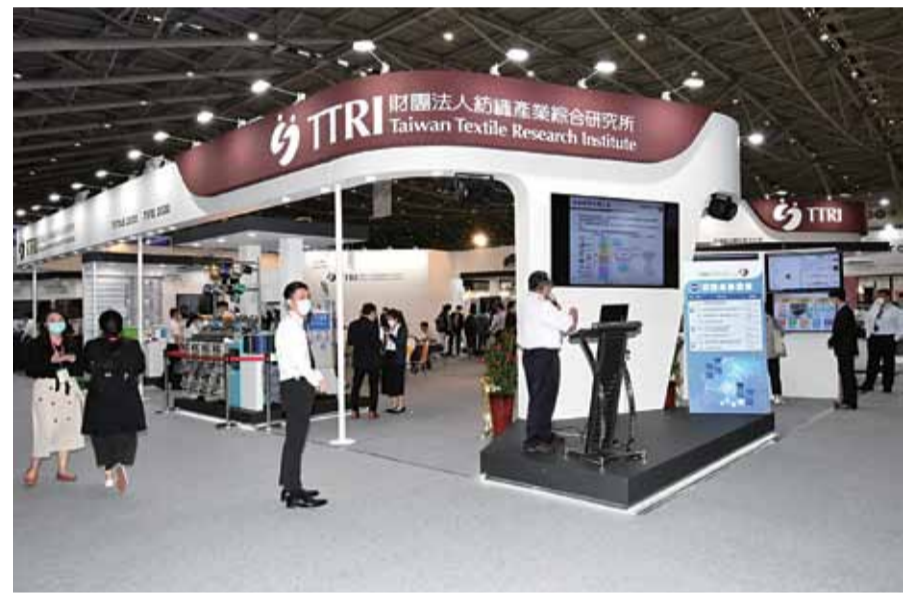
● Sustainable Textiles

TTRI shows melting point hot melt fiber, fluorine-free water repellency yarn, 2DF high fastness of doped-dyed fluorescent color fiber, and EcoT polyester recycling verification platform.

● Value-added Service

The Value-added service will display testing and evaluation technology of smart thermostatic textiles safety & protective textiles' mechanical efficiency, and Tnet of information platform, SMIS system & textile academy.

For more information, please visit the **Booth M136**.



TAIWAN GARMENT INDUSTRY ASSOCIATION

Presents the Best of Taiwan's Garment Industry

Headed by Chairman Lin Rue-Yue, Taiwan Garment Industry Association takes an active role in promoting the industry by consolidating the strengths of the members and joining forces with numerous outside sectors to develop smart textile products that open up a brand new era for the garment industry.

For TITAS 2020, the association brings forward works of ten members to exemplify the fashion glamour of Taiwan

and the innovation of astheisure.

Some companies showcase their brands products highlighting Taiwan's fashion garments, including Minkwood International, Li An Garment, Texma International, PFOFI, Tex-Ray, Londee.

Additionally, some companies present the strength of Taiwan's active wear and sportswear, such us TSW, Piero Pacco Textile, Hansc & Co., Singtex Fashion. Please visit the **Booth M336**.



TAIWAN NONWOVEN FABRICS INDUSTRY ASSOCIATION

Creating New Business Opportunities

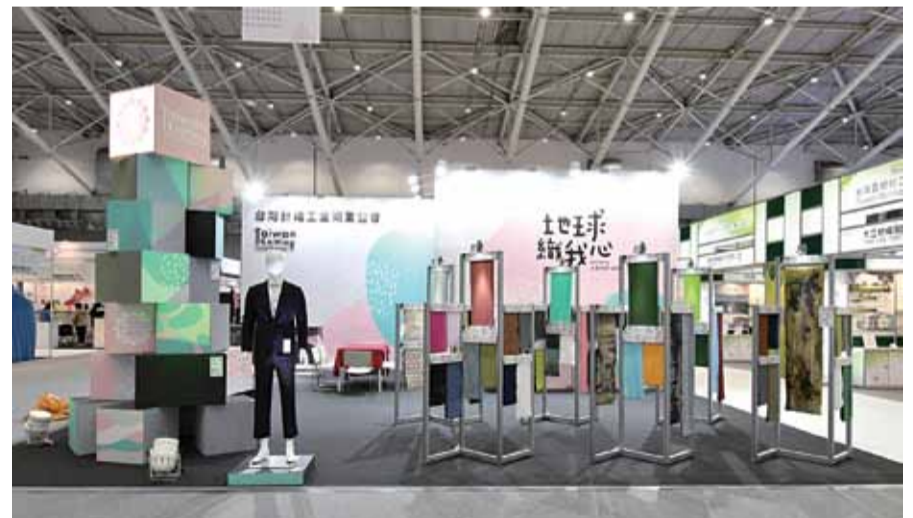
Nonwoven Epidemic Prevention Zone is the epidemic prevention supply chain zone formed by Taiwan Non-Woven Fabric Industry Association (TNFIA) and Taiwan Carpet Industry Association. This indicates the first time that TNFIA expands its exhibition since joining TITAS. Representing booths from suppliers of facial masks and protective isolation gowns, the zone hopes to show the public how nonwoven materials are parts of post-pandemic life style. The zone focuses on one principle and 5 key messages.

The zone emphasizes that non-woven materials will be the star industry in the 21st Century. Non-woven industry actively explores innovative possibilities in directions of healthcare, filtering and cleaning, and sustainability. There will be more demand for work force in this area. Application for nonwoven will grow as more and more cross-industry

collaborations continue. All these point to a promising outlook for the industry.

Currently, 19 non-woven companies participating in TITAS 2020, among them 11 set up booths: Nan Liu, We Pro, and Yi Ting from National Face Mask Team presenting their protective isolation gowns, face masks; MeltBlown Alliance members such as Shang Ta Chia, GMA, Leader Extrusion Machinery, Plasco Engineering, Day Young, and Magical Film Enterprise displaying their melt blown facilities and nonwoven materials; Fehrer Enterprise, Freudenberg Group, and San Shiang Technology showcasing their anti-epidermic carpeting and roofing materials; and Full Men Fabric presenting its printed colored non-woven fabrics for camouflage prints. Applications for nonwoven materials are wide and diverse.

For more information, please visit the **Booth N1114**.





COTTON COUNCIL INTERNATIONAL Trusted as Environmental Sustainability

In a period of ever-greater supply chain scrutiny and a growing demand for transparency, the U.S. Cotton Trust Protocol will set a standard for more sustainably grown cotton. It brings quantifiable and verifiable goals and measurement to the issue of responsibly-grown cotton production and drives continuous improvement in key sustainability metrics.

The Trust Protocol underpins and verifies U.S. cotton's progress through sophisticated data collection and independent third-party verification. Choosing Trust Protocol cotton will give brands and retailers the critical assurances they need that the cotton fiber element of their supply chain is

more sustainably grown with lower environmental and social risk. Brands and retailers will gain access to U.S. cotton with sustainability credentials proven via Field to Market, measured via the Field print Calculator and verified with Control Union Certifications.

The U.S. Cotton Trust Protocol is overseen by a multi-stakeholder Board of Directors comprised of representatives from brands and retailers, civil society and independent sustainability experts as well as the cotton-growing industry, including growers, ginners, merchants, wholesalers and cooperatives, mills and cottonseed handlers. Please visit the **Booth M711a**.

HEIQ MATERIALS AG

Solving the Most Urgent Issue on Earth

Over the last 15 years, HeiQ has been kept adding intelligence to textiles such as activated cooling, eco-friendly DWR, silver-free odor control, air purification and sustainable polyester dyeing solutions. While HeiQ's antimicrobial range has always been leading in performance and global regulatory profile, the most iconic trademark that has made headlines all over the world this year is HeiQ Viroblock – a technology that turns any fabric antiviral. Washable and durable, this textile treatment can generate antiviral effect within 2-5 minutes, and

has been tested effective 99.99% in 30 minutes against SARS-CoV-2, the COVID-19 causing virus, one of the first of its kind. With a patent pending formulation based on cosmetic grade, mainly bio-based ingredients, the technology has been adopted by over 100 brands globally in four months, enabling antiviral face masks, shirts, denim, bedding, mattresses and curtains to help the world go through the pandemic, and bringing consumers inner peace to resume their normal lives as soon as they can. Please visit the **Booth M810**.

POLYGIENE AB

New Technology ViralOff Has High Virus Isolation Rate

Polygiene AB, a Swedish high-tech company, has launched the ViralOff technology for a treatment of textile to manufacture the masks with highly effective anti-viral function. The active ingredient is a biocide and it is made of a reaction mass of titanium dioxide and silver chloride and it is not nano-silver. ViralOff stops viral activity through interaction with key proteins, inhibiting the virus from infecting the cells. It shows a 99% reduction of various viruses, on a treated material, within a 2

hours timespan.

In additions, ViralOff technology can also be used on making hospital wear, operation scrubs, mountain rescue wear and etc. It can also be used on any products that will directly touch your face or your skin, such as all kinds of wearable products, pillow case, bedding products, sofa cushions and even furniture. By avoiding washing the products too frequently, they can be used even longer. Please visit the **Booth N1401**.



THE LYCRA COMPANY

Introducing the New Technology

Themed "RENEW, REDEFINE, REINFORCE", The LYCRA Company is proudly presenting their new technologies and solutions in TITAS 2020 .

- **LYCRA® Anti-Slip fiber** is a new and an exceptional slippage solution for single core spandex fabrics that require durable stretch and good recovery.
- **LYCRA® MyFit™ fiber** is a patent-pending fiber technology engineered with a new polymer, designed to deliver improved comfort and fit. The result is greater shape tolerance and a customized fit experience for a differing range of body shapes.
- **LYCRA® FitSense™ technology** is a patented water-based dispersion that features the same molecules as LYCRA® fiber, but in liquid form. This revolutionary innovation is screen

printed onto fabric containing LYCRA® fiber to provide lightweight, targeted support across a range of garment types.

- **Planet Agenda** is the LYCRA Company's commitment to developing products and technologies that will minimize their environmental footprint, and enhance the performance of their customers' acceptances, while safeguarding the health and safety of employees and communities.
- **COOLMAX® freshFX™ technology** The active ingredient in COOLMAX® freshFX™ qualifying fibers is a durable, non-migratory silver-based antimicrobial additive. Therefore, the freshness performance can be expected to remain effective for the life of the garment even after repeated laundering. Please visit the **Booth M1011**.

MURATA MACHINERY TAIWAN

Revealing the Latest VORTEX Fabrics and Yarns

VORTEX Spinning Machine, is the fashion world has sought individuality through a variety of value systems and self-expression, the textiles that support that industry have become increasingly globalized. It is for this reason that they look to a single yarn to provide new added value. The technology which uses an air vortex to spin out the yarn.

VORTEX® is a quality yarn with high function and fashion applicability, created by VORTEX® spinning technology. The formation of this unique yarn uses vortex air to give VORTEX® yarn various features, and makes VORTEX® yarn the ideal material for daily use and for fashion.

For more information, please visit the **Booth M1107**.