



Edito

A great year for the STeW club - Smart Textiles & Wearables -

By Bruno MOUGIN, Techtera's Project Manager

The STeW club was born in January 2017. A year later, in 2018, it had 36 members.

But what's going on in this club?

Nothing mysterious – four high points during the year when members **meet and exchange their skills**. Each one brings an ingredient, a spice; and mixing does the rest! This is the philosophy of the club, whose name **“STeW” means to simmer** in English. Everyone contributes; the cluster identifies and provides **the missing skills**: technologies, project leaders, technical and economic information, knowledge, enthusiasm and expertise in generating projects.

In 2018, the club gave birth to several projects: An industrial prototyping project of a textile sensor (thanks to the design); a project currently being set up on connected textiles (centred on connectivity and resulting from printing electronics); a work group on the theme of textiles and energy, and many others ...

The club **radiates well beyond its own members**: In 2018, the members were able to **exhibit their know-how** during the WEARABLE LAB show at Première Vision in Paris, SMART FABRIC of the IFAI (Industrial Fabric Association International) in Dallas and the SIDO show (Internet of Things). The club also organised a conference at the CARNOT meetings on the theme of intelligent textiles.

The STeW club is also a **place for meeting others**: five startups presented their projects, and their textile needs. The members discovered skills: the CITILAB laboratory - a specialist in connected objects and data transmission, ELKEM - a specialist in high value-added silicones.

The DGA (the French Army Department) also came to present to club members the trends and needs of the army as regards connected textiles.

Add to that an interview with KURARAY, the manufacturer of connected thread, another with the DITF, one of the largest textile laboratories in Europe; convivial moments around a buffet, bursts of laughter, ideas and ambitions ...

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Focus

Strengthening of Franco-Israeli technological partnerships

The exploratory mission to Israel, led by EU-TEXTILE2030, (the consortium of European clusters of advanced textile materials), and **organised by the Techtera innovation cluster, was a real success**. From March 24th to 28th this year, it led the European textile industry and European manufacturers and clusters to meet the most prestigious and influential Israeli startups, small-medium enterprises, groups and universities in Europe and worldwide, including:

- The Israeli Institute **Technion**, with four Nobel Prize winners and ranked as the sixth world university for its innovation ecosystem
- **NILIT**, an international nylon producer operating in more than 70 countries around the world
- **Delta Galil Industries**, manufacturer and distributor of clothing for Calvin Klein, Nike and Victoria's Secret brands
- **Twine Solutions**, the startup that has managed the feat of raising \$22 million even before the first sale of its digital yarn-dyeing machine.

All the Israeli actors met during the mission expressed to the delegation their desire for closer relations with European companies and laboratories in the textile sector; thus **paving the way for future international collaborations and strengthening of Franco-Israeli ties in this sector**.

This reinforcement took shape during the mission with the **signing of a Memorandum of Understanding between the Association of Israeli Producers and the EU-TEXTILE2030 consortium** with the aim of establishing and promoting formal and sustainable cooperation between the European Union and Israel in the textile sector.

Based on the promising results of these first formalities, Techtera encourages its members to get closer to the cluster's project managers to establish **cooperation and technology partnerships with Israeli companies and/or universities, including through the H2020 calls for projects**.

From practices to implementation, the innovation ideas developed by the work groups will lead to launching joint projects, headed by the workshop participants.

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Our services

Innovation workshop “contribute your new ideas for the fashion and luxury sector”

The fourth industrial revolution represents a unique opportunity for development. Every link in the value chain can benefit from using these new technologies.

To facilitate integration of these new digital tools into the fashion and luxury sector, Techtera and DEFI organised an Innovation Workshop devoted to two leading technologies of industry 4.0: **Artificial intelligence and immersive technologies** (virtual, mixed and augmented reality).

They are members



TDV Industries, in Laval (Mayenne), has been manufacturing technical fabrics for workwear and protective clothing for over 150 years.

TDV Industries clothes construction workers, industrial production operators, manual workers in Paris, French soldiers in camouflage, stewards, etc.

Each year, the company clothes and protects 3 million people in their workplaces.

At the forefront of technical textile solutions, the company, while developing internationally, is now focusing on the design of multi-functional technical textile solutions.

TDV Industries is a pioneering small-medium enterprise for responsible, eco-circular textile solutions. Aware of the environmental and human impact of the textile industry, the company has been involved for more than 20 years in action to limit this effect.

Website: <https://tdv-industries.fr/>



The Tissages de Charlieu, Jacquard Fabric Specialists, have been designing and manufacturing their fabrics for more than 50 years exclusively at the Charlieu site near Roanne. It was taken over in 1997 by Eric Boël, who is also president of Unitex (Textil trade union of the Auvergne Rhône-Alpes region).

The company diversifies in plane weavings in 2006, acquiring the industrial weaving part of the Lapalud company in Thizy.

In 2009, Les Tissages de Charlieu creates the ALTER-TEX association, which brings together industrialists of the textile sector. His objective then is to structure sustainable development in the French textile industry.

So 20% of the turnover of Les Tissages de Charlieu is made with organic-fair trade and/or recycled textiles,

Les Tissages de Charlieu fabrics are certified by GOTS (Global Organic Textile Standard) that ensures that all production stages meet the requirements of the "bio" production on the protection of the environment.

With productivity capacity of 2 200 000 meters per year, LTC produce 700 new fabrics and 200000 meters of fabrics per month

LTC also stands out on the technical fabrics market, thanks to a major effort of research and development. These textiles of the future represent 20% of the total turnover. Its turnover is divided between fashion (60%), technical textiles (20%) and intra-companies which develop their own products (Letol, Tonnerre de belt & Indispensac (20%).

Website: <https://ltc-jacquard.com/>

Your appointments with the cluster

April 17, 2019: RECIT Club – Villa Créatis,, LYON (9h30-16h30)

RECIT Club, Recycling and Circular Economy in the textile industry ; was created in response to the environmental challenges of the textile industry,

Program :

- Presentation of 2 eco-designed products
- Testimony of an industrialist about setting up a circular economy program within his company
- Pilot recycling platform and collaborative projects
- Funding opportunity for circular economy research projects

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May 14 - 17, 2019: TECHTEXTIL/TEXPROCESS Exhibition

Techtera supports 37 firms at the TECHTEXTIL - TEXPROCESS show, an international meeting place for technical textiles.

This year we plan a global offer to maximise the benefits of your presence in Frankfurt: turnkey stand or space to exhibit your products, communication and business development activities, events resources, dedicated workshop to optimise your commercial strategy in Germany and at trade shows, etc.

The plan is supported by the Auvergne-Rhône-Alpes Region, and is available for eligible companies.

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June 3, 2019: Workshop Innovation – alternatives to traditional animal leather - Villa Créatis, LYON (13h30-17h30)

Techtera offers you to participate in a workshop on the theme of **alternatives to traditional animal leather**, such as: **synthetic « leather »** (from synthetic fibers), **vegan « leather »** (from natural fibers of fungus) and **fish « leather »** (from food wastes).

Alternatives to leather are part of an **eco-responsible approach** and are increasingly demanded by the consumers, wishing to buy products in accordance with ethical standards. So far quite marginal, the production of such materials is not industrialized yet, but this field is on the rise.

A lot can be done regarding the production, the materials and their visibility, so come (re)discover, think, discuss and **collaborate** on this topic with professionals of the industry (producers of alternatives to leather, brands using these materials...), with the aim of launching a **collaborative and innovative project!**

A **special delegation** of fiber manufacturers for **synthetic leathers from Japan** will present their expertise.

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Life of the members

Saint-Etienne Design Biennial: innovation and design partnership with the SIGVARIS GROUP in the heart of the “La Détricoteuse” space

Partner of the Design City since 2017, the SIGVARIS GROUP will be present at the 11th Design Biennial of Saint-Etienne.

From March 21 to April 22, 2019, this firm, a leader for medical compression products, will have the opportunity to show the general public how it integrates design in the creation of its products.

Website: <https://www.sigvaris.com/france/fr-fr>

Balsan obtains the civil protection label

The TSI, (*Service and Intervention Clothing*) developed by Balsan to equip firefighters, obtains the **"French Civil Safety" label**. This garment was developed in partnership with the teams of the DGSCGC (*French Civil Security and Crisis Management department*) to meet needs in this field.

It is the **first garment to obtain this label awarded by the Ministry of the Interior**.

Within Balsan, the development of this garment required the teamwork and coordination of all the technical, commercial and quality departments to enable its development and win the label.

Website: <http://www.balsan.fr/>

Calls for projects

EUROPEAN AND INTERNATIONAL CALLS FOR PROJECTS

SmartEES - SMART Emerging Electronics Servicing DIH (Clôture 19 avril 2019)

More information: <https://smartees.eu/smartees-call-for-projects>

FAST TRACK TO INNOVATION (Clôture 23 mai 2019)

More information: <https://ec.europa.eu>

Inter-relations between climate change, biodiversity and ecosystem services (Clôture 4 septembre 2019)

More information: <https://ec.europa.eu/info>

New solutions for the sustainable production of raw materials (Clôture 4 septembre 2019)

More information: <https://ec.europa.eu>

FET Open Challenging Current Thinking - Future and Emerging Technologies (Clôture 8 octobre 2019)

More information: <https://ec.europa.eu>

EUROSTARS (Permanent)

More information: <https://www.eurostars-eureka.eu/about-eurostars>

Financements BPI-ACCIO (Permanent)

More information: <http://www.bpifrance.fr>

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CART'TEX

Call for applications for the CART'TEX chart (reserved for TECHTERA members)

Textile companies wishing to join "CART'TEX", the chart of textile skills created by TECHTERA, can make themselves known to Bruno MOUGIN.

The CART'TEX database is the daily tool of the cluster for managing the search for partners for all projects, and for the response to business opportunities.

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