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The 2019 results and outlook for 2020

By Corinne FARACE, Techtera's Executive Officer

The year 2019 was marked by the Techtera innovation cluster being approved for another four years; confirming textiles as a key sector for the future.

It was a thrilling year with:

- Eight trade fairs at which Techtera supported 109 companies
- Four joint missions organised abroad, representing 20 firms supported
- Three projects funded and approved by Techtera
- More than 50 national and international workshops

The **versatility of potential textile applications** is a **major opportunity for the textile sector**. Today, textiles find their place in transport, building, health, sport and leisure, protection & safety, fashion, decoration and luxury; as well as in many other industrial fields.

The Techtera policy for 2020 is to stimulate a **new dynamic through three crosswise technological strategies aimed at targeted markets**:

- Smart and high-performance materials
- Circular Economy
- Factory of the future and new economic models

Techtera's ambition is to strengthen enterprise competitiveness through **innovation** and continue **supporting** firms in 2020 on **present and future markets** by **creating and setting up joint R&D projects**, and continue **consolidating European cooperation**.

The major steps taken in recent months, linked to our change of premises with their new tactical position and the many projects in the pipeline, confirm our strategy. They encourage us to focus our efforts on exploiting what we now have to offer, thanks to the new technical hall to accommodate equipment, which will be used by partnerships to develop and manufacture prototypes and small series for tomorrow's products.

Focus

New call for R&D Booster projects!

The Auvergne-Rhône-Alpes Region is renewing the call for R&D BOOSTER projects this year.

It is a **lever for "joint innovation"**, created by the Regional Innovation Fund of Auvergne-Rhône-Alpes. It **aims to promote joint R&D projects** (at least two enterprises plus a research and knowledge dissemination organisation), in response to the challenge of developing new products, processes and services.

This call for projects is particularly suitable for partnerships **integrating small-to-medium enterprises and businesses** (companies with under 2,000 employees), located in the region. It aims to finance development, pre-manufacturing and marketing within 24 months of project creation.

Funding, grants or repayable advances vary according to the type of partnership.

Techtera helps its members to prepare their files (identifying partners, consortium organisation, technical support & advice, etc). The Techtera approval label guarantees the viability of a project, its technical and economic solidity for requesting public funds.

Contact: Bruno MOUGIN – bmougin@techtera.org

Our services

A 2020 agenda faithful to the roadmap

The year 2020 promises to be devoted to innovation!

In line with the roadmap established during **phase IV of the innovation clusters**, Techtera has already planned many events for 2020 to help you innovate on the **most promising themes for the textile sector**:

- Smart and high-performance materials
- Circular Economy
- Factory of the future and new economic models

Below, you will find the action planned to inform and help you discover and develop new projects according to our three strategies. Techtera's agenda will be updated regularly because this list is still growing.

If you would like to discuss a specific topic, whether it is mentioned above or not, or you need more information about a particular event, please contact us.

Contacts: Bruno MOUGIN – bmougin@techtera.org

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Date	Intitulé	Smart and high-performance materials	Circular Economy	Factory of the future and new economic models
5 feburay	STeW Club	X		
17 March	Atelier : Sustainable Development - Recycling and Recovery of Flexible Textile Materials <i>In partnership with Pôle Textile Alsace</i>		X	
18 March	Thematic day :- "How to respond to the challenge of mass personalisation in industry of the future?" <i>In partnership with les Pôles du collectif des pôles pour l'industrie du futur d'Auvergne Rhône-Alpes</i>			X
25-26 March	Workshop : polymers in sport	X	X	
March	Workshop : Artificial intelligence and immersive technologies for Fashion and Luxury Goods <i>In partnership DEFI</i>			X
2 April	RECIT Club		X	
26-27 Mai	Conferences : Smart production technologies for high performance materials <i>In partnership with VDMA</i>	X		X
June	STeW Club	X		
7 July	RECIT Club		X	
26 August	STeW Club	X		
September	Meetings : AFELIM (Health and printed electronics)	X		
1 October	RECIT Club		X	
25 November	STeW Club	X		

If you would like more information about a particular event, please contact us.

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They are members



ALPEX PROTECTION

ALPEX PROTECTION develops **waterproof and breathable technical textiles for protective clothing**. Through the PROLINE brand, the company designs and distributes its laminated textile products, based on polyurethane, polyester and PTFE membranes.

Thanks to its expertise, Alpex Protection **can add functions to its multi-layer products, making them oil & water resistant, and flame retardant** ... Its applications are found in clothing designed for the police, firefighters, emergency services and the military.

Combining textile and chemical skills sectors, the R&D team develops solutions that meet current constraints through **the functionalisation and improvement of materials and industrial processes**. The company **devotes 5% of its turnover to R&D**, and creates **300 new technical fabrics per year**.

Furthermore, Alpex Protection participated in the ETINCELS project, which aims to develop innovative protective clothing and underwear; comfortable and limiting thermal stress in intervention situations.

Website: <https://www.alpex.fr/>



ÉCOLE CENTRALE DE LYON

With 160 years' experience, the mission of the "École Centrale de Lyon" is to **train generalist engineers** and specialists in various disciplines.

With its six research units located on campus, all approved by the CNRS (*French National Centre for Scientific Research*), it combines training and research.

Firmly rooted in its epoch, aware of globalisation and the resulting competition, it has made agreements with other universities around the world for more than 50 years, in the form of double degrees or partnerships.

It also maintains **permanent contacts with industrial groups**, regularly present on campus. Lastly, going beyond the base of scientific and technical skills, the "École Centrale de Lyon" offers an openness to the world and an approach to the human and social sciences, which today adds a mark of distinction to engineers coming from the "École Centrale de Lyon".

Website: <https://www.ec-lyon.fr/>

They are also members:

[TDV INDUSTRIES](#) | [STEVTISS](#) | [OURDISSAGE ENCOLLAGE D'AMPLEPUIIS](#) | [MECANIUM](#) | [FONTANILLE SCOP](#) | [GENIUS OBJECTS](#) | [CHOMARAT](#) | [AJ BIAIS](#) | [ARMINES](#) | [ALLIANCE MACHINES TEXTILES](#) | [AFELIM](#) |

Your appointments with the cluster

March 3-5, 2020: JEC WORLD 2020 (Trade show dedicated to composites) - Parc des expositions - PARIS NORD VILLEPINTE

JEC World is the international trade show **federating the world composites industry**. It provides users with a complete overview of **processes, new materials and dedicated solutions**. This unique event brought together more than 1,300 exhibitors and 43,500 visitors over the three days of the trade fair, giving exhibitors the opportunity to **develop their relationships** and **showcase their know-how** to key-account visitors.

Axelera, Techtera, Plastipolis and Viaméca renew their participation at this show on the **Composites Auvergne-Rhône-Alpes joint stand**.

Contact: Lucie LAGARRIGUE – mission@techtera.org

March 17, 2020: Innovation workshop; Sustainable Development - Recycling and Recovery of Flexible Textile Materials – Pôle Textile Alsace - 25 Rue Alfred Werner – 68100 MULHOUSE

Techtera and “Pôle Textile Alsace” join forces to organise an innovation workshop about: Sustainable Development - Recycling and Recovery of Flexible Textile Materials.

Contact : Kim PICARD-CHAÏBI - kpocardchaibi@techtera.org

March 18, 2020: Industry of the Future thematic day – “How to respond to the challenge of mass personalisation in industry of the future?” - Ecole des Mines, 158 Cours Fauriel - 42023 SAINT ETIENNE

Whatever the field of activity, customers - corporate or individual - **expect products to be increasingly personalised. How can we be more responsive to this demand while maintaining the same production volume?**

To inform you, to help you think about and move forward on this subject, Techtera, in partnership with the **industry-of-the-future group of clusters**, is organising a day on this theme.

The subjects tackled on the day by **providers of industrial solutions**, already well-known for having embarked on this path, will **help you understand this question of industry 4.0**.

Contact : Kim PICARD-CHAÏBI – kpocardchaibi@techtera.org

March 25-26, 2020: Innovation workshop polymers in sport (Techtera-SFIP-OSV) - Centre de congrès « Le Manège » - 331, rue de la République - 73000 CHAMBERY

Techtera co-organises with **SFIP** (*French Society of Plastic Engineers*) and **OSV** (*Outdoor Sports*) the third edition of the conference: polymers in sport.

On the programme: conferences, including **presentations of laboratories and companies from all those involved in the chain** (raw material suppliers, subcontractors, brands).

Also note: a brainstorming session to generate project ideas and a visit to an industrial laboratory!

Contact : Bruno MOUGIN – bmougin@techtera.org

April 22-24, 2020 : MOUNTAIN PLANET, International Mountain Development Trade Fair Alpexpo - 2 avenue d'Innsbruck - GRENOBLE

Mountain Planet is an essential trade fair! Every year, winter and summer, it brings together **those involved in the mountain sector**; also, **professionals concerned with the development of urban structures**. During its last edition, this event hosted 900 internationals working in this field, from 25 countries. This year, through the Auvergne-Rhône-Alpes Region, Techtera will be present at the show for the first time.

Contact : Lucie LAGARRIGUE - llagarrigue@techtera.org

May 4-8, 2020: ALLIANCE; Mission to South Korea

As the leader of the European ALLIANCE project, aimed at the internationalisation of companies, Techtera accompanies textile companies on a collective mission to South Korea.

The programme will be sent to you shortly.

The ALLIANCE project brings together 7 European clusters and supports textile companies in the defence and security markets in the United States, Japan and South Korea.

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Life of the members



Fluxmedicare listed in the Health Trophy Category

As part of **Trophies for the Future: Europe 1** rewards companies, associations or communities for their audacity, **their innovation and their vision**. Fluxmedicare, a patented luminous textile with optical fibres for treating precancerous skin lesions, is in the running for the "Health"

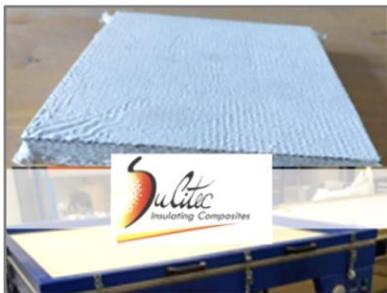
category.

Resulting from several years of research in partnership with respected laboratories and doctors, the Fluxmedicare device, manufactured in Isère **by MDB Texinov**, member of the Techtera innovation cluster, **revolutionises the photodynamic therapy (PDT) treatment of skin diseases - dividing the pain endured by a factor of 10!**

In particular, Fluxmedicare is **dedicated to the treatment of actinic keratosis by photodynamic therapy**. Mainly located on the face, scalp and back of the hands, actinic keratoses are precancerous skin lesions, generally caused by unprotected exposure to the sun. The photodynamic therapy treatment is effective, but in its conventional form can be extremely painful for patients. **Consisting of a laser source and a patented luminous textile with optical fibres**, Fluxmedicare thus makes it possible to carry out an almost painless treatment thanks to its innovative technology of light diffusion.

From <https://www.europe1.fr/sante>

Website: <https://www.texinov.com/>



Sulitec files a new patent for a composite product

Always looking for innovation, Sulitec has filed a **new patent for a composite product**: refrastrat®. It consists of a rigid composite based on mineral resin from the fotistrat® range, reinforced with technical fabrics (glass, carbon, etc) and an integrated complex from the refratex®

range.

Thanks to its structure, refrastrat® has **better thermal performance with less total thickness and a significant weight gain** compared to mineral base composites.

This product finds its applications on panels protecting against thermal radiation, on fire walls, etc. It has a **temperature resistance up to 1200°C and good mechanical strength** (40 MPa in compression, 62 MPa in bending).

To manufacture this product, Sulitec has acquired new equipment: a new workshop is dedicated to its development and its thermal specifications.

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

Calls for projects

EUROPEAN AND INTERNATIONAL CALLS FOR PROJECTS

Advanced light materials and their production processes for automotive applications (Closing: April 4, 2020)

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

EUROSTARS (Permanent)

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

Financements BPI-ACCIO (Permanent)

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

Contact: bmougin@techtera.org

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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