



SEPTEMBER 25<sup>th</sup> — 27<sup>th</sup> 2018

# INNOVATION **SQUARE**

BY LINEAPELLE

A NEW HUB  
OF INSPIRATION  
AND INNOVATION

LINEAPELLE

**FIERAMILANO RHO**

Corso Italia  
in front of pavilions 9-11

ENGLISH



[www.fashioninnovation.it](http://www.fashioninnovation.it)

# LINEAPELLE INNOVATION SQUARE

SEPTEMBER 25<sup>th</sup> 2018

09.30 AM

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LINEAPELLE INNOVATION SQUARE: INSPIRE, INNOVATE

11.30 AM

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FASHION AND BIOTECHNOLOGY

02.30 PM

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FUTURE OF MATERIALS, MATERIALS OF THE FUTURE

SEPTEMBER 26<sup>th</sup> 2018

09.30 AM

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BIOMIMICRY AND THE WORLD OF FASHION

11.30 AM

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MATERIALS AND FUNCTIONS

02.30 PM

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SUSTAINABILITY AND CIRCULARITY IN THE FASHION BUSINESS

SEPTEMBER 27<sup>th</sup> 2018

09.30 AM

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DIGITALISATION AND INDUSTRY 4.0

11.30 AM

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SKILLS AND COMPETENCES OF THE FUTURE



LINEAPELLE INNOVATION SQUARE

# A NEW HUB OF INSPIRATION AND INNOVATION

## INSPIRATION

New knowledge, bright ideas.  
LINEAPELLE INNOVATION SQUARE  
aims to stimulate creativity  
through science and technology



## CONCRETENESS

LINEAPELLE INNOVATION SQUARE  
will enable and facilitate concrete  
possibilities for research,  
development and technology transfer



## VISION

A new dimension of the fair,  
that searches around the world  
and presents innovations  
and new knowledge,  
beyond the usual boundaries



## INNOVATION

New materials, new processes,  
new technologies at all levels  
of development, from laboratory  
prototypes to fully industrialised  
solutions



## ENCOUNTER

40 speakers from 11 countries,  
specialised R&D institutes  
and innovative companies  
come together in the same place  
for a specific period of time,  
stimulating discussions  
and possible partnerships



SEPTEMBER 25<sup>th</sup> 2018

09.30 AM

# LINEAPELLE INNOVATION SQUARE: INSPIRE, INNOVATE



09.30 AM

**GIANNI RUSSO**

*President - UNIC Concerie Italiane (Italy)*

**Welcome**



09.35 AM

**FULVIA BACCHI**

*General Manager - Lineapelle (Italy)*

**Opening Remarks**

Fulvia will introduce the event, its rationale and its programme



09.40 AM

**FEDERICO BRUGNOLI**

*Lineapelle Innovation Square Curator (Italy)*

**Lineapelle Innovation Square: investigate, inspire, innovate**

Federico will explain the role of the Innovation Square in the evolving fashion and design market and present the concepts and disciplines that will populate the three days of the event in greater detail



10.00 AM

**GRAZIANO BALDUCCI**

*President - SSIP - Italian Leather Research Institute (Italy)*

**The importance of innovation in leather making**

SSIP is the Italian Research Institute for Leather and leather making. Graziano will analyse the different research pathways that are and will be active within the institute and within industry



10.10 AM

**FIorenZO OMENETTO**

*Frank C. Doble Professor of Engineering, Tufts University, Boston Dean for Research, School of Engineering, Tufts U. Director, Silklab (United States of America)*

**The aesthetic of innovation**

Fiorenzo will describe the inherent values that link science, art and all forms of innovation in evolving markets and environments related to aesthetic and technical product performance



10.30 AM

**LIVIO VALENTI**

*Co-Founder VP of Policy, Strategy and Operations - Vaxess Technologies, Inc. Start up - Harvard Innovation Lab (United States of America)*

**Inspiration, contamination, entrepreneurship: a success story from the Harvard Innovation Lab**

Livio, named one of the 30 top innovators under 30 by Forbes Magazine, will bring in inspiration on frontier innovation, directly linked with his own personal experience, telling his story and sharing his most important learnings



10.45 AM

**SKYLAR TIBBITS**

*Co-Director - MIT Self Assembly Lab (United States of America)*

**Programmable material technologies for novel manufacturing**

Skylar will share with the audience the latest research carried out in his MIT laboratory, on self-assembly and programmable material technologies for novel manufacturing



11.00 AM

**END**

SEPTEMBER 25<sup>th</sup> 2018

11.30 AM

# FASHION AND BIOTECHNOLOGY

Fashion, design and automotive have always used many materials of biological origin (leather is a prime example), each having specific technical and aesthetic properties. Today, frontier technologies are beginning to be able to reproduce them. New opportunities are therefore opening up.

The speakers' interventions will analyse the opportunities offered by modern fashion biotechnology. They will explain how we can imagine a new material and teach cells and organisms to construct it.

Some concrete examples of prototypes and industrial applications will be illustrated: collagen-based materials made from cells and bacteria and spider silk made from yeasts.



11.30 AM

**PAOLO NETTI**

*Director - Università di Napoli - Istituto Italiano di Tecnologia (Italy)*

**From structure to properties, from properties to structure**



11.50 AM

**ANTHONY COVINGTON**

*Emeritus Professor of Leather Science Institute for Creative Leather Technologies - University of Northampton (United Kingdom)*

**Collagen-based biomaterials**



12.10 PM

**SUSAN SCHOFER**

*VP Business Development - Modern Meadow (United States of America)*

**New collagen-based materials**



12.30 PM

**HENDRIK BARGEL**

*Scientific Manager - Tao Keylab Fiber Processing (Germany)*

**Spider silk & co. – proteins for high-performance materials**

12.50 PM

**IDEAS, DISCUSSIONS, QUESTIONS, ANSWERS**

01.30 PM

**END**





SEPTEMBER 25<sup>th</sup> 2018

02.30 PM

# FUTURE OF MATERIALS, MATERIALS OF THE FUTURE

What should materials be like in order to respond to the evolutions of tomorrow's consumers? To anticipate them? To introduce new ones? Will the real innovations in the future still be tied to the aesthetics of what exists today or to the way of imagining, conceiving, manufacturing and marketing new materials? New services?

The latest research says that in the future, materials will have to be programmable, self-repairable, intelligent, interactive, sustainable, recyclable and transformable, and that their production processes could change radically.

The presentations will offer a broad overview of what is happening alongside concrete, targeted examples: from materials science to art to semi-autonomous design.



02.30 PM

**LUIGI DE NARDO**

*Professor in Materials Science and Technology - Politecnico di Milano (Italy)*

**Materials science and fashion**



02.50 PM

**MICOL COSTI**

*Director of Library and Materials Research - Material ConneXion Italia Srl (Italy)*

**Material solutions and advanced technologies: trends and drivers of innovation**



03.10 PM

**HANNAH CROFT**

*Director and Designer - MUUNA (United Kingdom)*

**Alchemic Fashion: synthesising amalgamated matter**



03.30 PM

**ASSA ASHUACH**

*Founder and Director - Assa Studio (United Kingdom)*

**Learning as it grows – Developing the new STEM 45° semi-autonomous design methodology**

03.50 PM

**IDEAS, DISCUSSIONS, QUESTIONS, ANSWERS**

04.30 PM

**END**





SEPTEMBER 26<sup>th</sup> 2018

09.30 AM

# BIOMIMICRY AND THE WORLD OF FASHION

“Copying nature to design a better world”. This is one of the many definitions of biomimicry, a discipline that analyses the biological and biomechanical processes and materials of nature as a source of inspiration for the improvement of human activities and technologies. The core idea is that nature has already solved many of the problems we are grappling with. In nature, we already find for example: super hydrophobic surfaces, self-healing tissues, organic electricity generators, temperature respondent materials. Are animals, plants and microbes the consummate engineers? Speakers will illustrate and exemplify biomimetic approaches and biogenic processes that bring together biology, material engineering and materials design with design and innovation, not only within the fashion industry.



09.30 AM

**MICHAEL MAYER**

*Chair Biophysics - Adolphe Merkle Institute University of Fribourg (Switzerland)*

**Electric eel power source: an example of bioinspiration**



09.50 AM

**VERONIKA KAPSALI**

*Reader and technical director - London College of Fashion and MMT (United Kingdom)*

**Biomimetic fashion materials**

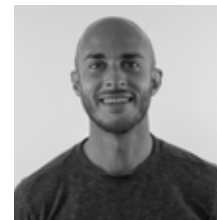


10.10 AM

**JONATHAN BORYEKO**

*Assistant Professor - Virginia Tech (United States of America)*

**Managing Moisture with Bio-Inspired Materials**



10.30 AM

**MAURIZIO MONTALTI**

*Designer, R&D Director and Entrepreneur - Mogu Srl - Officina Corpuscoli (The Netherlands/Italy)*

**Mycelium Materials & Products – Creating Responsible Value**

10.50 AM

**IDEAS, DISCUSSIONS, QUESTIONS, ANSWERS**

11.20 AM

**END**



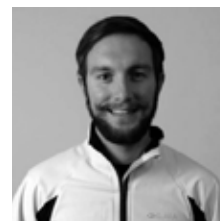
SEPTEMBER 26<sup>th</sup> 2018

11.30 AM

# MATERIALS AND FUNCTIONS

The main role of materials in fashion, design and upholstery has historically been to create the structure of objects, to cover them, to make them beautiful and comfortable. Will this be the case 10 years from now? Will we still only handle, wear and use materials or will we also interact with them?

Wearable devices are a reality, today. Functionalised materials will probably enable a wider range of everyday objects (such as clothes, bags, shoes, car seats, furniture) to understand human and environmental conditions and respond, modifying their behaviour to satisfy human needs. The speakers will provide several examples of prototypes, products, processes and nanotechnologies that are expected to enhance the functionalisation of materials and intelligent evolution of objects.



11.30 AM

**MARCO DAL LAGO**

*CEO & Co-Founder - CLARA Swiss Tech Sagl (Switzerland)*

**Challenges and opportunities in merging fashion with technology**



11.50 AM

**FRANCISCA ARAN AIS**

*R&D Coordinator - INESCOP Center for Innovation and Technology (Spain)*

**Innovative processes for leather production**



12.10 PM

**CARLA SILVA**

*CTO Chief Technology Officer - CeNTI (Portugal)*

**Nanotechnologies for innovative functionalities in leather**



12.30 PM

**TIZIANA SARTO**

*Marketing Manager - Directa Plus (Italy)*

**Innovation and Inspiration through Graphene Plus**

12.50 PM

**IDEAS, DISCUSSIONS, QUESTIONS, ANSWERS**

01.30 PM

**END**





SEPTEMBER 26<sup>th</sup> 2018

02.30 PM

# SUSTAINABILITY AND CIRCULARITY IN THE FASHION BUSINESS

For many years, the fashion and design world have been working towards more efficient production technologies, advanced chemistry, recycling and adding value to industrial residues, as well as improving working and social conditions. There is still more to do and there always will be.

Moreover, the scarcity of natural resources in general is pushing the industry to move to a circular economy model, evolving towards products that will be designed to be disassembled and materials that will be 100% recyclable more than once.

Speakers in this session will touch upon: new technologies for the optimisation of the use of water and chemicals in leather making, water recycling, new and high value uses of leather scraps, monitoring of production processes and supply chains. Extensive examples of circular materials will also be provided.



02.30 PM

**VIKRANT PRATAP**

Managing Director - Qualus Sustainable Tanning Technologies from Xeros (*United Kingdom*)

**Resource Optimisation in Leather Production**



02.45 PM

**STEFANO SOMMARIVA**

Founder - VP Purity (*Italy*)

**Water Accountability and Water Efficiency**



03.00 PM

**ANNA PELLIZZARI**

Executive Director - Material ConneXion Italia Srl (*Italy*)

**Materials and the circular economy**



03.15 PM

**THOMAS BECK**

Interior Architect and Product Designer - tbSTUDIO (*Germany*)

**Design thinking as a tool to find new perspectives for circularity**



03.30 PM

**MARIA JOSÉ FERREIRA**

R&D and Quality Director - CTCP (*Portugal*)

**Does digitalisation make footwear more sustainable?**



03.45 PM

**ENRICO PURGATO**

CEO - The ID Factory Srl (*Italy*)

**Supply chain traceability as a necessary step towards sustainability**

04.00 PM

**IDEAS, DISCUSSIONS, QUESTIONS, ANSWERS**

04.40 PM

**END**

SEPTEMBER 27<sup>th</sup> 2018

09.30 AM

# DIGITALISATION AND INDUSTRY 4.0

What if one day, tanning drums were able to learn from their work and become experts in leather making? How long do we have to wait before we can see robots collaborating with workers in the leather and fashion industry? In the automotive world, this is already a reality... What will be the new ways for managing large amounts of data in globalised supply chains?

All this is and will be possible by allowing machines and products to be connected, share data and information on line (Internet Of Things), ultimately leading to creating responsive and learning production systems, through artificial intelligence. Speakers will share experiences and visions, as well as examples of existing technologies and data management systems at various stages of development.



MODERATOR

**FEDERICO FERRAZZA**

*Director - Wired (Italy)*



09.30 AM

**EMANUELE CARPANZANO**

*Director - Department of Innovative Technologies - University of Applied Sciences and Arts of Southern Switzerland (Switzerland)*

**The role of artificial intelligence in the ongoing digital transformation of industry**



09.45 AM

**PAOLO CASSIS**

*Co-Founder Designer - Caracol srl (Italy)*

**Leather and Smart Industry: how the face of design can change**



10.00 AM

**TOBIAS STREICH**

*Director of Business Development - Transparency-One (USA - France)*

**Source to consumer – supply chain digitalisation and collaborative approaches**



10.15 AM

**FERDINANDO CANNELLA**

*Researcher - IIT (Italy)*

**Robotics and Industry 4.0**



10.30 AM

**FRANCO CAVADINI**

*Chief Technical Officer - Synesis Consortium (Italy)*

**Exploiting Industry 4.0 for Sustainable Automation**

10.45 PM

**IDEAS, DISCUSSIONS, QUESTIONS, ANSWERS**

11.20 PM

**END**



SEPTEMBER 27<sup>th</sup> 2018

11.30 AM

# SKILLS AND COMPETENCES OF THE FUTURE

One of the most important assets in the fashion industry is represented by its workforce. What is going to happen ten years from now? The most specialised and skilled technicians are approaching retirement age and new arrivals are entering the sector. Job opportunities but also training needs. How can we best train and educate the new arrivals? There are new trends that could fundamentally change the way of working and consequently the skills that will be required. Digital innovation in particular is driving big changes in the fashion industry. Speakers will present the expected evolutions of skills and competences of the future workforce, as well as future job opportunities as a result of a very recent and advanced forecasting analysis carried out at European level. Attendees will have the opportunity to discuss and validate the results of a project focused on Digital skills ([www.digitalTCLF.eu](http://www.digitalTCLF.eu))



11.30 AM

**LUTZ WALTER**

*Director for Innovation & Skills - EURATEX (Belgium)*

**Digital Disruption in Fashion – Digital Skills for the Future of Fashion**



11.45 AM

**FEDERICO BRUGNOLI**

*Lineapelle Innovation Square Curator (Italy)*

**9 Digital or Digitalised Fashion Occupations**



12.00 PM

**RITA SOUTO**

*Director of Training - CTCP (Portugal)*

**New Competences in Shoemaking: fit and comfort for consumers: Fit2Comfort**



12.15 PM

**CARMEN ARIAS**

*Secretary General - CEC (Belgium)*

**Evolution of Market Needs – Key Results of a Forecasting Analysis**



12.30 PM

**LAURENT ZIBELL**

*Policy Advisor - TCLF Footwear industriAll-European Trade Union (Belgium)*

**Industry Needs for Future Jobs – Quantitative Assessment**



12.45 PM

**GUSTAVO GONZALES QUIJANO**

*Secretary General - COTANCE (Belgium)*

**Bridging Training and Industry needs – Training Gaps & Mismatches**

01.00 PM

**RESULTS, VALIDATIONS, IDEAS, DISCUSSIONS**

01.30 PM

**END**



## EXHIBITORS



[www.caracolstudio.com](http://www.caracolstudio.com)



[www.theidfactory.com](http://www.theidfactory.com)



[www.puritytec.com](http://www.puritytec.com)



[www.xerostanning.com](http://www.xerostanning.com)  
[www.qualus.com](http://www.qualus.com)



[www.tbstudio.de](http://www.tbstudio.de)



[www.transparency-one.com](http://www.transparency-one.com)

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[www.ctcp.pt](http://www.ctcp.pt)



[www.inescop.es](http://www.inescop.es)



[www.northampton.ac.uk](http://www.northampton.ac.uk)



[www.supsi.ch/dti](http://www.supsi.ch/dti)



[www.centi.pt](http://www.centi.pt)



[www.materialconnexion.it](http://www.materialconnexion.it)

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