

DESIGN

IMPACT

24 July –
09 August
2015

Design
Hub
RMIT
University

Smart Flexibility: Advanced Materials and Technologies

Materfad, Barcelona's
materials centre

FOR

Smart Flexibility: Advanced Materials and Technologies

Materfad, Barcelona's materials centre

24 July – 09 August 2015
Design Hub RMIT University

An international touring exhibition curated by Materfad, Barcelona and presented as part of the Design for Impact festival organized by RMIT's Design Research Institute.

Download a copy of Materfad's **Smart Flexibility: Advanced Materials and Technologies** official catalogue on: www.smartflexibility.materfad.com

and for this exhibition guide on: www.designhub.rmit.edu.au/docs/smart-flexibility-catalogue.pdf

www.materfad.com
www.designresearch.rmit.edu.au

Materfad
Barcelona
Materials centre

Design
Research Institute

RMIT
UNIVERSITY

Introduction

Professor Swee Mak
Director, Design Research Institute
RMIT University.

RMIT is a global university of technology and design.

Since 2009, RMIT's Design Research Institute (DRI) and its inaugural Director - Professor Mark Burry showcased the work of collaborative multi-disciplinary design research addressing real world problems through its annual **Design Challenge** and the **Convergence: Transforming Our Future** exhibition.

In 2015, as the new DRI Director, I am proud to lead and showcase the continued vibrancy of RMIT's design research and innovation eco-system through the **Design for Impact** festival from 24 July to 9 August. Its aim is to demonstrate the role of collaborative and industry-engaged design research in creating impact through solutions, products and services. The major event of this festival is the international touring exhibition **Smart Flexibility: Advanced Materials and Technologies** curated by Materfad, Barcelona's materials centre, Spain and exhibited at RMIT's Design Hub, Melbourne, Australia.

Smart Flexibility: Advanced Materials and Technologies presents the potential of active and flexible materials from ten countries including USA, Germany, Denmark, UK, Holland, Switzerland, Canada, China and Spain. Three RMIT design research projects - Penumbra led by Professor Richard Blythe, Associate

Professor Paul Minifie and Nick Williams, Lumina: A Luminous Cloud led by Dr Chin Koi Khoo and Aesthetics of Air: Visualising the Invisible led by Dr Malte Wagenfeld have been selected to be part of the Melbourne exhibition and will continue to tour with the Materfad exhibition.

Through the international projects and over 100 materials and technologies, the exhibition reformulates concepts such as flexibility, activity, energy efficiency, structural capacity, sensitivity, reactivity, control, function and form...

This global exhibition explores the increasing role of materials in our society. It demonstrates how advanced and innovative materials can catalyse collaborative, multidisciplinary and innovative research and industry-focused possibilities and projects that benefit our society, integrating design, technology, innovation and entrepreneurship.

With RMIT's rich history and global reputation in design education and research, **Design for Impact** festival and **Smart Flexibility** contribute to RMIT's position as a leading design and innovation education, research and cultural institution and to Victoria's position as Australia's leading design capital.

RMIT Design Research Institute

The RMIT Design Research Institute (DRI) aims to build the role of design research as a ‘solution finder’ towards the challenges of Urbanisation and the Cities of the Future.

DRI is a unique location for transdisciplinary research collaboration, bringing over 200 RMIT researchers and their industry, government and community partners together to access a broad spectrum of design thinking.

Researchers from architecture, fashion, aeronautical and chemical engineering,

business, industrial design, art and new media form teams around significant projects.

DRI’s research projects are speculative and practical, applicable to the ways we live and work, create culture and communities, plan and navigate our world.

Smart Flexibility: Advanced Materials and Technologies

The **Smart Flexibility: Advanced Materials and Technologies** exhibition is the result of the ongoing technological surveillance task of Materfad, Barcelona’s materials centre. Materfad seeks to explore the current capabilities provided by certain structures and materials to raise awareness and adapt architecture to its environment.

From this perspective the exhibition stands on the borderline between matter and structure, investigating the flexibility and intrinsic reactivity of some specific materials and advanced technologies.

In order to do so, **Smart Flexibility** not only congregates architects, designers and construction engineers but also creators from other sectors such as fashion, whose projects and products are focused on smart flexibility.

These contemporary works and projects associated with materials, sensitive systems and articulated mediums allow us to imagine the functionalities that can be made available, from smart and flexible architecture to a reactive garment.

The harvesting of wind and solar power, electrical and thermal energy generation, perception and adaptation to climatic conditions, to acoustics and the lighting environment, user detection

and modification of the space according to a person’s body, movements or even emotions are the challenges of tomorrow’s spaces and are thus the guidelines of this exhibition.

“Active Flexibility” attracts developments from universities and businesses from different countries (Germany, United Kingdom, Holland, Spain, Switzerland, Denmark, United States, Canada and China), all revolving around national research projects and with specific lines in this innovative and future field. It now includes three projects from RMIT University, Melbourne, Australia.

Materfad, as an accredited Support Centre for Technological Innovation, has the goal of facilitating the introduction of innovation through the documented use of advanced materials and technologies. This exhibition shares this strategy.

What is Materfad?

Materfad, Barcelona's materials centre, performs a research and technological surveillance task in the field of new materials and new technologies.

Materfad disseminates knowledge in the field of new materials, processes and technologies among businesses, professionals, universities and technology centres to facilitate their application in industry and in the commercial sector and to generate innovation in the development of new products and spaces.

Materfad provides the different materials selection tools that articulate one of the clearly defined paths to innovation: the good use and selection of the materials.

Materfad supports the actors of innovation to achieve energy efficiency in products and processes in order to address the major challenges of the future in the best conditions.

- **Material** is a substance, an element or a chemical composite normally developed to fulfill a function, whether mechanical, electrical, optical, thermal, magnetic or aesthetic.

- **Structure** is the arrangement and order of the parts within a whole, a system of compatible and coherently linked materials whose goal is to condense the essence of the whole.

- **Intelligence** is the ability to conjoin the knowledge possessed by a being, an entity or a system to resolve a specific situation.

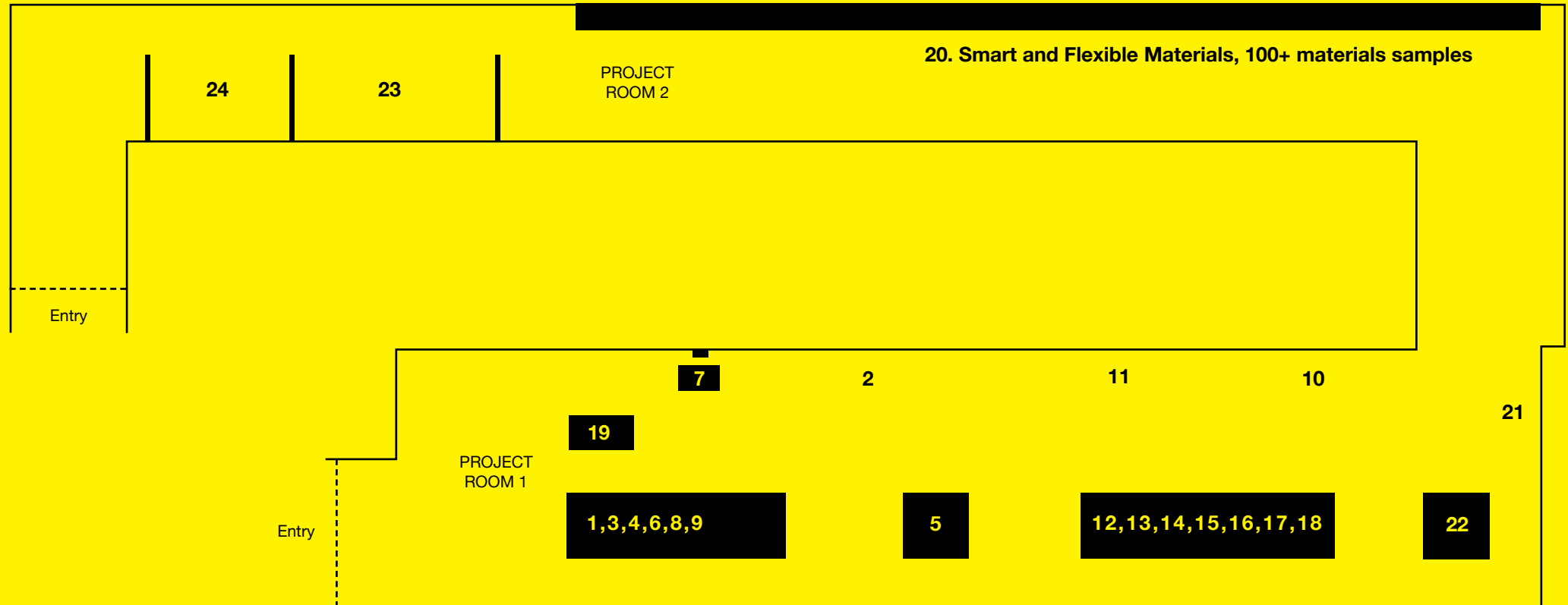
- **Flexibility** is the ability of a material, entity or system to deform when subjected to force and to recover

its original position when the force is withdrawn.

The **Smart Flexibility** exhibition, through the use of advanced materials, among them active materials, explores the potentialities they present when they form part of flexible, adaptive structures that are suitably integrated into the environment. The **Smart Flexibility** exhibition, through materials and technologies, reformulates concepts such as flexibility, activity, energy efficiency, structural capacity, sensitivity, reactivity, control, function and form. It allows us to view the present in an open and collaborative manner and dynamically through prospective projects in which different national and international research groups lead

the way, set the trend and make us look to the future with the necessary assurance required by a much-sought-for sustainable development, a development for which it is crucial for technical industry to evolve towards a matter industry for the sake of multifunction, sustainability and the 'visible' invisibility of physical matter.

Materfad presents **Smart Flexibility** as a key element in the creation of value for the end product through new functionalities and new benefits offered by new materials in the context of energy efficiency.



- 1. Materiability
- 2. Bloom (video)
- 3. Techno Naturology
- 4. Pixel Skin
- 5. Strange Metabolism
- 6. Hygro Skin – Pabellón Meteorosensible

- 7. Step-Lux
- 8. Persiana de control solar
- 9. Translated Geometries
- 10. Foam (video)
- 11. Lotus Dome/Liquid Space (video)
- 12. Unlace

- 13. Vibe-ing
- 14. My Thread Pavilion
- 15. Space-E(motion) and Sample Book
- 16. Radiant Soil
- 17. Sound Embracer
- 18. Trailblazer

- 19. Persistent Model # 3
- 20. Smart and Flexible Materials
- 21. Leaf Spring (video)
- 22. Penumbra
- 23. Lumina: A Luminous Cloud
- 24. Aesthetics of Air: Visualising the Invisible

Perception/ Adaption to the Environment

Perception/ Adaption to the User

Smart Flexibility:

Advanced Materials and Technologies

1. Materiability

**ETH (Eidgenössische Technische Hochschule) –
Zürich, Switzerland**

Materiability Research Network

Chair for Computer

Aided Architectural Design - Manuel Kretzer

www.materiability.com

2. Bloom (video)

DOSU Studio Architecture – California, USA

Doris Sung

www.dosu-arch.com

3. Techno Naturology

The Fabrick Lab – Hong Kong, China

Elaine Ng Yan Lin

www.thefabricklab.com

4. Pixel Skin

Orangevoid – London, United Kingdom

www.orangevoid.com

5. Strange Metabolism

**The Royal Danish Academy of Fine Arts, School of Architecture –
Copenhagen, Denmark**

CITA – Centre for Information Technology and Architecture

Prof. Mette Ramsgaard Thomsen + knitter Toni Hicks + KADK students Sigrid

Bylander, Hasty ValipurGoudarzi, Nagy Awad.

www.cita.karch.dk

6. Hygro Skin – Pabellón Meteorosensible

Universität Stuttgart, Germany

ICD Institute for Computational Design – Faculty of Architecture and Urban Planning

Prof. Achim Menges + Oliver David Krieg, Steffen Reichert

www.icd.uni-stuttgart.de

7. Step-Lux

Elisava – Barcelona, Spain

Escola Superior de Disseny i Enginyeria de Barcelona
Dr. Javier Peña + Pau Romagosa
www.elisava.net

Materfad – Materials Centre

Valérie Bergeron
www.materfad.com

LEITAT – Technological Centre

José Sáez
www.leitat.org

8. Persiana de control solar

Elisava – Barcelona, Spain

Escola Superior de Disseny i Enginyeria de Barcelona
Dr. Javier Peña, Dra. Marta González + Albert Lahoz,
Maximiliá Marinel-lo, Bernat Basté
www.elisava.net

9. Translated Geometries

**IAAC, Institute for Advanced Architecture of Catalonia,
Master in Advanced Architecture - Barcelona, Spain**

Areti Markopoulou, Alexandre Dubor, Moritz Begle
Efilena Baseta, Ece Tankal, Ramin Shambayati
www.iaac.net

10. Foam (video)

IAAC – Institute for Advanced Architecture of Catalonia – Barcelona, Spain

Areti Markopoulou, Alexandre Dubor, Moritz Begle + Luis León López,
Chung Kai Hsieh, Maria Laura Cerda
www.iaac.net

11. Lotus Dome/Liquid Space (videos)

Liquid Space (Video)

Studio Roosegaarde – Waddinxveen, The Netherlands
Daan Roosegaarde
www.studioroosegaarde.net

Lotus Dome (Video)

Studio Roosegaarde – Waddinxveen, The Netherlands
Daan Roosegaarde
www.studioroosegaarde.net

12. Unlace

TU/e University of Technology – Eindhoven, The Netherlands

Eef Lubbers
www.tue.nl

13. Vibe-ing

**TU/e University of Technology and TextielMuseum TextielLab Tilburg
and Metaronics – Eindhoven, The Netherlands**

Jesse Asjes + EunjeongJeon, Martijn ten Bhömer, Kristi Kuusk.
www.tue.nl
www.textielmuseum.nl

14. My Thread Pavilion

Jenny Sabin Studio LLC – Philadelphia, USA

Jenny E. Sabin
www.jennysabin.com

15. Space-E(motion) and Sample Book

Diffus Design Aps – Copenhagen, Denmark

Hanne-Louise Johannesen
www.diffus.dk

16. Radiant Soil

Philip Beesley Architect Inc. (PBAI) – Toronto, Canada
www.philipbeesleyarchitect.com

17. Sound Embracer

IAAC – Institute for Advanced Architecture of Catalonia – Barcelona, Spain
TU/e University of Technology – Eindhoven, The Netherlands
ESDI – Escola Superior de Disseny – Barcelona, Spain
Óscar Tomico, Marina Castán + Xavi González, Carlos Gómez + Gerard Rubio,
Cristina Real, Sara Gil, Gerda Antanaityte
www.iaac.net
www.tue.nl
www.esdi.es

18. Trailblazer

IAAC – Institute for Advanced Architecture of Catalonia – Barcelona, Spain
TU/e University of Technology – Eindhoven, The Netherlands
ESDI – Escola Superior de Disseny – Barcelona, Spain
Óscar Tomico, Marina Castán + Xavi González, Carlos Gómez + Bert Balcaen,
Martin Lukac, Rafael Vargas, Gemma Vila-Masana
www.iaac.net
www.tue.nl
www.esdi.es

19. Persistent Model # 3

The Royal Danish Academy of Fine Arts,
School of Architecture – Copenhagen, Denmark
CITA Centre for Information Technology and Architecture
Associate Professors Phil Ayres + Kasper Stoy (ITU),
David Stasiuk (CITA), Hollie Gibbons (CITA) + FESTO
& Aug. Olsen's Eff. A/S + KADK sustainability initiative
www.cita.karch.dk

20.

Please refer to the Smart and Flexible Materials section of this booklet.

21. Leaf Spring (video)

UPC Universitat Politècnica de Catalunya – Barcelona, Spain
ETSAV Escola Tècnica Superior d'Arquitectura del Vallès CODA Barcelona Tech –
LiTA Laboratori d'Innovació i Tecnologia en Arquitectura
www.coda-office.com

22. Penumbra

RMIT University, School of Architecture and Design – Melbourne, Australia
Professor Richard Blythe, Associate Paul Minifie, Nicholas Williams
Scott Mitchell, Daniel Prohasky, Amaury Thomas, Joshua Salisbury-Carter,
Brendan Knife, Wenjin Lai, Todd Dawson, Guangshan Pan.
www.sial.rmit.edu.au/portfolio/penumbra/

23. Lumina: A Luminous Cloud

RMIT University, School of Architecture and Design – Melbourne, Australia
Dr Chin Koi Khoo
www.vimeo.com/89060180

24. Aesthetics of Air: Visualising the Invisible

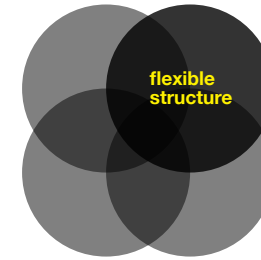
RMIT University, School of Architecture and Design – Melbourne, Australia
Dr Malte Wagenfeld
www.vimeo.com/user7165278

Smart and Flexible Materials

100+ materials samples

Smart Flexibility:

Advanced Materials and Technologies



001
Mallas Metálicas:

Stainless steel mesh in
different geometries
www.twentinox.com

002
X-Tend:

Stainless steel elastic mesh
www.carlstahl.com

003
Golf Romeo:

Woven stainless steel flat wire mesh
www.twentinox.com

004
Cubit:

3D honeycomb-structured fabric
www.asahi-kasei.co.jp

005
Deflexion S-Range:

3D spacer polyester fabric,
silicone-coated
www.dowcorning.com

006
3D Textile:

3D technical fabric
www.cetex.de

007
Spacetec:

Three-dimensional polyester fabric
www.heathcoat.co.uk

008
Azur:

Spiral tube
www.alfaflex.fr

009
Alfavac PU-XL:

Plastic and metal coating
www.alfaflex.fr

010
Flexible Tube:

Steel and titanium flexible tube
www.carniaflex.it

011
Incubo:

Carpet made from recycled rubber
and wool
www.ruckstuhl.com

012
Welding solution:

Rolled fabric and padding (foam)
manufactured using electro-welding
www.gabriel.dk

013**3D-Tex Standard:**

3D fabric made from polyester, Lycra and PA with PVA resin
www.mayser.de

014**Macmat R acier:**

Wire-reinforced three-dimensional geotextile mesh
www.maccaferri.fr

015**Mondaplen:**

Expanded polyethylene
 3D packaging
www.grifal.it

016**Calypso:**

Wire mesh made from steel and silicone
www.luxon.fr

017**Kaynemaile KML22:**

Seamless polycarbonate chainmail
www.kaynemaile.com

018**Juta:**

Stainless steel and jute fabric
www.ttmrossi.it

019**SL / Chainex:**

Stainless steel fluid mesh
www.cottedemailles.fr

020**A-1518:**

Metallic fabric with transparency effect
www.naturtex.es

021**TamiFerro:**

Carpet made from paper (60%), cotton (10%) and steel (30%)
www.naturtex.es

022

Not on display in Melbourne exhibition

023**Qualiflex:**

Panel for bending
www.rougier.fr

024**Foldtex:**

Ultra-lightweight folding board
www.foldtex.com

025**Feltro-Legno:**

Carpet made from felt strips and wooden slats
www.ruckstuhl.com

026**Legno-Legno:**

Woven stainless steel flat wire mesh
www.ruckstuhl.com

027**MarineDeck Exterior:**

Polyurethane composite
www.stazo.nl

028**Antislip:**

Anti-slip mosaic,
 100% recycled glass
www.reviglass.es

029**Unibamboo:**

Bamboo slab with latex backing
www.moso.eu

030**Baltek SB series:**

Balsa wood, treated, controlled drying, with excellent properties of stiffness and tensile strength.
www.corematerials.3Acomposites.com

031**Bambú en rollos:**

Bamboo slats, woven or glued with textile backing
www.moso.eu

032**Honeycomb Ceiling:**

Honeycomb cells with non-woven material
www.chenel.com

033**Kvadrat Clouds:**

Wool-made three-dimensional tile concept
www.kvadrat.dk

034**Tapis Natural Wood:**

Wooden carpet
www.naturalwww.com

035**Flexipan:**

Flexible wooden board
www.zanzibar.be

036**Ekobe:**

Coconut mosaic
www.ekobebrasil.com

037**Flexibrick:**

Flexible ceramic fabric with an internal steel structure
www.flexibrick.es

038**Wood-Skin™:**

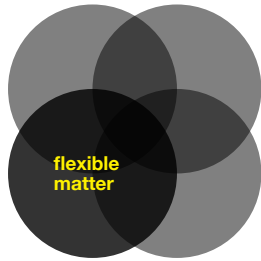
Jointed wooden structure
www.wood-skin.com

039**Ligneah:**

Wood flake fabric
www.mymantrasrl.com

040**Folding A-Part by Mika Barr:**

Three-dimensional fabric by customizable silk-skin printing
www.mymantrasrl.com



041
45047 Conductive Tape:

Conductive elastic tape made of copper, PET and elastomer
www.amohr.com

042
Creadesign:

Flocked stretched polymeric fabric
www.housereform.es

043
Impresa:

Stretched polymeric fabric printed with patterns, photos and images
www.barrisol.com

044
Siliconcell:

Open – or closed – cell silicone sheets, coils or rods
www.eurofoam.com

045
Kmat:

Geotextile plastic
www.temagroup.it

046
Plasticana:

Hemp plastic
www.plasticana.com

047
Technogel:

Polyurethane gel for comfort applications
www.technogel.it

048
Espuma Arandipur:

Polyurethane foam boards of gradual density
www.arandipur.com

049
FP:

Lightweight and flexible wooden veneer
www.albeflex.it

050
Fiamma:

Flamed stainless steel fabric
www.ttmrossi.it

051
Lizard:

Stainless steel embossed fabric
www.ttmrossi.it

052
M&M, M&M Rio:

Stainless – stainless, brass and copper metallic fabric
www.ttmrossi.it

053
Cangiante:

Metallic textile made of different materials, with an iridescent effect
www.ttmrossi.it

054
Spiga:

Stainless steel fabric
www.ttmrossi.it

055
River, Mini River:

Stainless steel 51%, 49% opened fabric
www.ttmrossi.it

056
SpaceFab:

Three-dimensional fabric
www.zellner-textil.de

057
Flexible Stone:

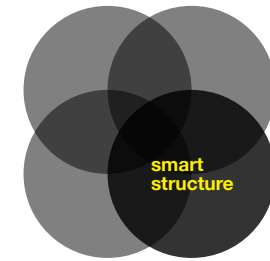
Ultrathin genuine stone surface over cellulose fabric
www.villanileonello.com

058
Flexible Cork:

Flexible cork fabric, possibility of surface printing
www.villanileonello.com

059
AmpliTex® flax braids:

Braided flax tubes
www.bcomp.ch

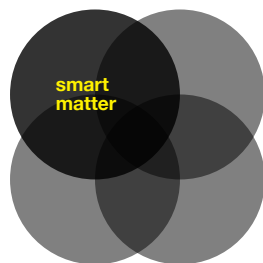


060
PCM - Lehmbauplatte:

Clay panels incorporating phase-change materials (PCM)
www.lehmorenge.de

061
OLED:

Light panels in sheets comprised of organic layers
www.lumiotech.com



062
Asi Thru 10:
Photovoltaic glass
www.schott.com

063
APC Piezoeléctrico 840:
Navy Type-I piezoelectrics,
different shapes and sizes
www.americanpiezo.com

064
Vanzzaclu:
Photoluminescent pigments
www.easyworld.co.kr

065
Thermochromic Paint:
Thermochromic painting
www.racingcolors.com

066
Photoluminiscent Paint:
Photoluminescent painting
www.racingcolors.com

067
Conductive Paint:
Conductive paint
www.racingcolors.com

068
Minatec®:
Conductive pigment for
antistatic covering
www.merck.com

069
Iriotec® 9000
IR-reflecting pigments
www.merck.com

070
Wicking Windows™:
Technology to avoid wet
sensation on cotton
www.cottoninc.com

071
TransDRY®:
High-performance technology
for humidity management on cotton
www.cottoninc.com

072
Tough cotton®:
Anti-wrinkle technology for cotton fabrics
www.cottoninc.com

073
Coldblack®:
Anti-heating technology for textile,
protects from UV rays
www.schoeller-textiles.com

074
Schoeller®-PCM™:
PCM material microencapsulated in fabric
www.schoeller-textiles.com

075
Nanosphere:
Self-cleaning nanofinish for textile
www.schoeller-textiles.com

076
Water Repellent:
Water-repellent finish
for fabrics
www.fabricato.com

077
Fat and Oil Repellent:
Fat- and oil-repellent finish
for fabrics
www.fabricato.com

078
Confort-fresh:
High-absorbency (sweat) and
water-protection finish for fabrics
www.fabricato.com

079
**Vitaminas y
microencapsulados:**
Fabric finish for microencapsulation
www.fabricato.com

080
Static Energy Reducer:
Static-energy reducer finish for fabrics
www.fabricato.com

081
Antibacterial:
Permanent antibacterial finish
for cotton and blends
www.fabricato.com

082
Waterproof – Breathable:
Humidity protection and water
vapour allowance finish for fabrics
www.fabricato.com

083
Anti-wrinkle:
Anti-wrinkle resin-based finish for fabrics
www.fabricato.com

084
Vector-attack-preventing:
Vector-attack-preventing finish for fabrics
www.fabricato.com

085
Chlorine Resistant:
Textile finish that ensures colour
fastness when chlorine-washed
www.fabricato.com

086
Fire Retardant:
Flammable treatment for fabrics
www.fabricato.com

087
Thermoelectric board:
Thermoelectric board
www.peltiermodules.com

088
NnF CERAM® - Al2O3:
Alumina (Al₂O₃) nanofibers
www.pardam.cz

089
NnF CERAM® - TiO2:
Titanium dioxide (TiO₂) nanofibers
www.pardam.cz

090

NnF CERAM® - CeO₂:

Cerium dioxide (CeO₂) nanofibers
www.pardam.cz

091

NnF CERAM® - CeZrO₄:

Cerium Zirconium bi-oxide (CeZrO₄)
nanofibers
www.pardam.cz

092

NnF CERAM® - SiO₂:

Silica (SiO₂) nanofibers
www.pardam.cz

093

NnF CERAM® - ZrO₂:

Zirconia (ZrO₂) nanofibers
www.pardam.cz

094

NnF CERAM® - LTO:

Lithium titanate (LTO) nanofibers
www.pardam.cz

095

NnF CERAM® - WO₃:

Tungsten trioxide (WO₃) nanofibers
www.pardam.cz

096

NnF MBRANE® - PA6:

Nylon (PA6) nanofibrous membrane
www.pardam.cz

097

NnF MBRANE® - PUR:

Polyurethane (PUR) nanofibrous
membrane
www.pardam.cz

098

NnF MBRANE® - PA6/PUR:

Nylon/Polyurethane (PA6/PUR)
nanofibrous membrane
www.pardam.cz

099

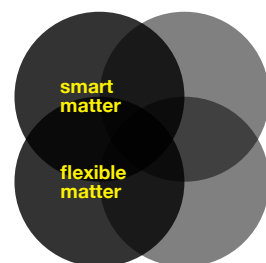
GANF Carbon Nanofibres:

Carbon nanofibres in different formats
www.grupoantolin.com

100

Graphene Oxide Suspension:

Graphene oxide suspension
www.granphnanotech.com



101

DuraAct:

Flexible piezoelectric transducer
www.piceramic.com

102

Tarjetas “Tocar & Revelar”:

Temperature-changing colour cards
www.surisa.es

103

Reverlink:

Self-healing material
www.arkema.com

104

Comfortemp:

Thermoregulatory non-woven fabric
www.freudenberg-nw.com

105

Spaceloft:

Flexible aerogel mat with excellent
thermal properties
www.aerogel.com

106

Flexinol®:

Shape-memory nickel-titanium wire
www.dynalloy.com

107

Lunabrite Trim:

High performance
photoluminescent tube
www.lunabrite.com

108

EnerGlo:

Phosphorescent, waterproofing and
breathable textile coating
www.energlo.ca

109

Nitinol:

Shape-memory nickel-titanium alloy
www.euroflex-gmbh.de

110

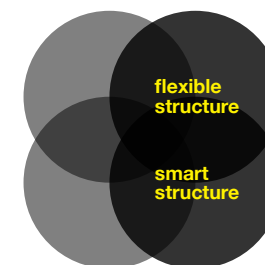
Outlast® Adaptive Comfort®:

Phase Change Material
www.outlast.com

111

ChroMyx:

Temperature-changing colour materials
www.chameleonint.com



112

PowerMembrane:

Photovoltaic flexible modules
www.marcegaglia.com

113

Organic Solar Cells:

Flexible photovoltaic cells from
various nanoscale organic layers
www.nanosyd.sdu.dk

114

Luminis:

Photoluminescent mosaic,
100% recycled glass
www.reviglass.es

115

Ceelite:

Electroluminescent flexible,
semi-rigid or rigid sheet
www.ceelite.com

Credits

Materfad Curators: Valérie Bergeron and Javier Peña
Materfad Assistants: Aline Charransol and Ainhoa Pastor

RMIT DRI Exhibition Team: Professor Swee Mak, Michele Azzopardi, Kylie Wickham, Simone Steele, Kaushali Seneviratne and Mark Robbins.

Materfad and RMIT Consultant: Barbara Marshall

RMIT Design Hub Curatorial Team: Kate Rhodes, Fleur Watson, Nella Themelios, Erik North, Kate Riggs, Audrey Thomas-Hayes, Tim McLeod, Tom Muratore, Marcin Wojcik, Sam Fagan.

Exhibition Design Team

Exhibition Design: Cate Hall
Graphic Design: Sean Hogan, Trampoline
Vinyl Production: Boom Studio
Book Production: Bambra Press

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Smart Flexibility: Advanced Materials and Technologies is an international touring exhibition curated by Materfad, Barcelona and presented as part of the Design for Impact festival organized by RMIT's Design Research Institute.

RMIT Design Hub

Smart Flexibility: Advanced Materials and Technologies
Materfad, Barcelona's materials centre

24 July – 9 August 2015

Opening Hours

Tuesday – Friday 11am – 6pm, Saturday 12 – 5pm
Closed Sunday, Monday and Public Holidays

Smart Flexibility is open on:

Saturday 25 and Sunday 26 July (Open House Melbourne) 10 – 4pm
Sunday 9 August 2015 (RMIT Open Day) 10 – 4pm

Admission is free.

RMIT Design Archives

By Appointment:

The RMIT Design Archives is located on the western side of the forecourt. Contact Archives to make an appointment to view the collection:
www.rmitdesignarchives@rmit.edu.au

Location:

Corner Victoria and Swanston Streets, Carlton, 3053
Hello.designhub@rmit.edu.au
www.designhub.rmit.edu.au

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