

Event:
Date:
Place:

ENERGY in BUILDINGS 2017
Saturday October 21, 2017
Athens,



WORKSHOP
Research and Innovation activities in nanotechnology
concerning Energy Efficient Buildings

	<p align="center">Brice FIORENTINO Ph.D in Physico-Chemistry</p>	
<p>Title:</p>	<p align="center">Innovation Manager at ENERSENS, Bourgoin-Jallieu, France</p>	
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<p>Project title:</p>	<p>HomeSkin H2020 project</p>	
<p>Presentation title:</p>	<p align="center">The HomeSkin project : pre-industrial development of super-insulating material and systems</p>	
<p>The Advanced Aerogel-Based Composite (AABC) materials are a unique new class of materials. The HomeSkin project aims at developing a new silica Advanced Aerogel-Based Composite material possessing the lowest thermal conductivity of all insulation materials found in the market.</p> <p>The proposed solution will bring to the market new insulation technologies that do not only possess very high thermal insulation performance but also are thinner, lighter, non-flammable, and with lower CO₂ and VOC emissions. The new material developed can be applied to new buildings as well as for old buildings retrofit applications.</p> <p>Among our objectives in this project are to develop more sustainable construction with lower embodied energy, and develop healthy, fire resistant and moisture controlled insulating layers, as well as eco-innovative binders and adhesives, to enhance the durability and reduce maintenance costs, and to demonstrate the energy and health efficiency of building envelopes based on such new materials. The HOMESKIN project shall bring key contributions to the very high performance insulation standards and policies.</p> <p>Different tasks will be carried out by the partners involved. One part of the work is dedicated to the material development. This material will become the basis for the development of the insulation systems. Coatings and interface materials will be developed according to the AABC integration in the insulation systems solutions (for inside, outside, singular points and thermal bridges insulation applications). These advanced insulating systems will be assessed to validate their acoustical, thermal, hygrothermal, fire safety, and VOC emissions properties. A life cycle analysis will also be performed. The performances of these solutions will then be tested on buildings under real weather conditions, from Passys cells to houses in different European regions and finally to a public authority infrastructure.</p>		

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CV:

PROFESSIONAL EXPERIENCES

Innovation Manager

ENERSENS – NOVACAP Group

2015-2017 (2 years) - Bourgoin-Jallieu, France

Management of innovation projects for the development of high performance insulating materials. Projects planning, progress monitoring, resource, cost and risk management, reporting, management of interactions with employees and partners, product marketing, communication and dissemination of projects.

Coordinator of the H2020 European project "HOMESKIN". Budget of € 6.3 million, involving 10 European partners. The objective of the project is to develop new products and high-performance insulation systems, from R&D to the market.

Management of strategic road-map focusing on business development and Innovation projects.

Innovation management & funding. Management of public funding to leverage investments while optimizing cash flow (national or European funding: FUI, H2020, FP7, LIFE, etc.).

Development of an external network with academic, institutional and industrial partners for innovation through external partnerships.

R&D Project Manager

CEA – NanoSafty Platform

2013-2015 (2 years) – Grenoble, France

Project management of innovation and security for new products, related to the nanomaterials sectors.

The objectives of these projects are:

- ☰ Facilitate the responsible, cost-competitive use of substances containing nanomaterials by industrial companies
- ☰ Develop innovative technology to help make industrial companies more competitive
- ☰ Contribute to building workers' and the public's trust in nanomaterials to ensure broad support for active nanotechnology R&D.

Coordination of projects addressing industrial issues: MICHELIN, Akzo Nobel, PPG, MATERIS, ALLIOS, AMCOR and also national and international research centres: CSTB, VTT, EMPA, TECNALIA, IUTA, KIST, ERDC.

Chemical R&D Engineer

IMERYS Talc / IMP laboratory

2009-2012 (3 years) – Villeurbanne, France

Development of innovative materials for the automotive market.

Organic treatment of the surface of mineral particles for the optimization of their dispersions. Incorporation of these new ranges of mineral fillers for lightening and reinforcement of polymer materials.

Technological monitoring, conducting tests and analyses, interpreting results, writing reports, managing internal and external collaborations.

Chemical R&D Engineer

SOLVAY 2009 (6 months) - Saint-Fons, France

Organic synthesis of biosourced polyamide, scale-up on semi-industrial reactors for the development of a new range of materials.

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EDUCATION

2016 INPI - Master Class PI

Industrial Property at every stage of an innovation project: optimizing the strategy and management of IP within the company

2014 INSTN

Management of research and innovation in companies:

- The strategic approach for innovation
- Technological marketing
- Innovation funding

2009-2012 INSA de Lyon / Lyon 1 University

Doctorate of Physical-Chemistry of Materials