

## NANOLEAP Open Day 2017 Workshop Madrid, Spain - 19<sup>th</sup> January 2017

### European network of pilot production plants to promote the use of nanocomposites in construction sector

NANOLEAP project brings together a European network of pilot production facilities focused on scaling up nanocomposite synthesis and processing methods. The network is composed of ten pilot plants distributed across Europe (France, Germany, Italy, Spain and Switzerland) dealing with the most promising applications of nanocomposite materials in the construction sector. After the end of the project, the ten pilot plants, properly equipped and skilled, will work in open access with industrial parties, specially fostering the collaboration with SMEs, with the ultimate goal of enabling the progress of the product to next steps of technology deployment such as installation of industrial lines and enter in the commercialisation stage.



On 19<sup>th</sup> January 2017 NANOLEAP project partners organise an Open Day Workshop to create fruitful debate among research organisations, government representatives and overall Industrial parties about new models of collaboration academia-Industry based on infrastructure and knowledge sharing as a tool to effectively deal with the technological and economical challenges involved in the process of industrialisation and commercialisation of nanocomposites.

The workshop intends to promote open, straight and biased communication between all the stakeholders of the innovation value chain, but specially listening to the needs of the Industry of (nano)composites. To this end, the programme has been organised in two parts: first part is dedicated to presentations of NANOLEAP pilot plants and Open Access model; second part is focused on interactive open discussion about pilot production opportunities and challenges.

You can find more information about NANOLEAP project at the website

[www.nanoleap.eu](http://www.nanoleap.eu)

## NANOLEAP Open Day 2017 Workshop Agenda – DRAFT v1.6

Date: 19th January 2016

Venue: IMDEA Nanociencia, Faraday 9, Ciudad Universitaria de Cantoblanco, 28049 Madrid, Spain

**09:15** Arrival & Registration

**09:30** Welcome and NANOLEAP Open Day Introduction

**Dr. Isabel Rodriguez Fernandez**, *NanoLeap Open Day 2017 Host*  
*IMDEA, Spain*

**Dr Bojan Boskovic**, *NanoLeap Open Day 2017 Organiser*  
*Cambridge Nanomaterials Technology Ltd, UK*

**09:45** Overview of the EC H2020 NANOLEAP project

**Prof. Jose-Luis Valverde**, *NANOLEAP Project Coordinator, Full Professor of Chemical Engineering at the University of Castilla-La Mancha, Ciudad Real, Spain*

**10.15** European Pilot Production Network (EPPN) and Innovation Hubs

**Dr. Bojan Boskovic**

**10:30** KETs & SME: The Networks of Pilot Lines Approach. National/regional support

**Lucia Iñigo-Paarmann**, *NMBP Management Programme Committee of the Leadership in Enabling and Industrial Technologies Pilar of Horizon 2020, Centre for the Development of Industrial Technology (CDTI) of the Spanish Ministry of Economy and Competitiveness, Spain*

**10:45** Coffee break

**11:15** NanoLeap Pilot Plant presentations

- *Inductively coupled thermal plasma (ICP) pilot line for the synthesis of functionalized nanoparticles, EMPA, Switzerland*
- *Spray-drying pilot plant for the production of consolidated nanoparticles in microsized granules, University of Castilla-La Mancha, Spain*
- *Pilot plant for the production of anti-icing nanocomposite coatings – Fraunhofer Gesellschaft - IFAM, Germany*
- *Pilot plant for the production of anticorrosion nanocomposite coatings, NANTO Cleantech SPA, Italy*
- *Pilot plant for the production of lime-based coatings incorporating nanomaterials for indoor use, Graphenano, Spain*
- *Pilot plant of lacquering and laminating process roll to roll technology to produce multilayer nanocomposite films for advanced applications in civil infrastructure, Fraunhofer Gesellschaft – IVV, Germany*
- *Pilot plant of nanoimprinting roll to roll for producing biomimetic hydrophobic and self-cleaning nanocomposites, IMDEA, Spain*

- *Pilot plant of multifunctional hybrid yarns by one/two-step online spinning Leibniz Institute of Polymer Research Dresden, Germany*
- *Pilot Plant for the production of nano-reinforced silica aerogels by means of supercritical CO<sub>2</sub> drying of sol-gel technique, Separex, Spain*
- *Pilot Plant for the production of nano-reinforce aerogels via freeze-drying, University of Castilla-La Mancha, Spain*

### **12:35 Discussion about NanoLeap pilot plants**

*Facilitated by Prof. Jose-Luis Valverde and Dr. Bojan Boskovic*

### **13:00 Networking lunch buffet and poster presentation**

### **14:00 Business Case: Collaboration Industry-Pilot Plant facility. Benefits for the Industry**

*Jaime Jose Cubillo Capuz, Head of Advanced Materials Group, Acciona, Spain*

### **14:10 From innovation at lab and pilot plant scale to market implementation of innovative carbon nanomaterials-based applications. A case of success.**

*Mario Celdrán, General Manager, Graphenano, Spain*

### **14:25 Discussion**

### **15:00 NanoLeap Health and Safety Session**

*Dr. Simon Clavaguera, CEA, France*

### **15:15 Coffee break**

### **15:45 Pilot production opportunities and challenges - interactive discussion**

*Facilitated by Dr Bojan Boskovic*

- *Needs of pilot plants*
- *Barriers for using pilot plants*
- *Innovation Hubs – existing infrastructure and needs*
- *Pilot Production Development and Cooperation Models*
- *Pilot Production Business Models*
- *Technology transfer and innovation management*
- *Nano-safety issues*

### **16:45 Closing remarks**

In order to receive a registration form for participation at the NanoLeap Open day 2017 Workshop please contact Dr Bojan Boskovic from Cambridge Nanomaterials Technology Ltd on [Bojan.Boskovic@CNT-Ltd.co.uk](mailto:Bojan.Boskovic@CNT-Ltd.co.uk)