

NANOLEAP Open Day 2018 Workshop Freising, Germany – 20th June 2018

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 20th June 2018 NANOLEAP project partners are organising an Open Day Workshop to create a debate among research organisations, industrial parties and government representatives about new models of collaboration between industry and academia 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 and straight communication between all the stakeholders of the innovation value chain, with special emphasis on understanding the needs of the Industry related to nanocomposites. The workshop programme has been organised in two parts: first part is dedicated to presentations of the NANOLEAP pilot plants and the Open Access model, and the second part is focused on an interactive open discussion about pilot production opportunities and challenges.

You can find more information about NANOLEAP project at the website

www.nanoleap.eu

NANOLEAP Open Day 2018 Workshop Agenda – DRAFT v1.2

Date: 20th June 2018

Venue: *Fraunhofer Institute for Process Engineering and Packaging IVV
Freising, Germany*

08:45 Arrival & Registration

09:00 Welcome and NANOLEAP Open Day Introduction

Prof. Dr. Horst-Christian Langowski, Director *Fraunhofer Institute for Process Engineering and Packaging IVV, Germany*

Dr Bojan Boskovic, NanoLeap Open Day 2018 Organiser, Cambridge Nanomaterials Technology Ltd, UK

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

09:30 Overview of the EC H2020 NANOLEAP project (pilot lines and services)

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

10:45 NanoLeap Pilot Production facilities 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*

11:00 Coffee break

11:30 NanoLeap Pilot Production facilities presentations (cont.)

- *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 CO₂ 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*

12:00 NanoLeap Pilot production support services

- *Market analysis, IPR strategy and technology transfer - RINA – Italy*
- *Patent landscape analysis and business model development - Cambridge Nanomaterials Technology Ltd – UK*
- *Health and safety of nanomaterials - CEA – France*
- *Commissioning and*
- *Product characterisation and testing. LCA – ECNP – Italy*
- *Composite material processing and testing. Training – Netcomposites – UK*
- *Engineering consultancy: factory automation and Turnkey solutions – STAM and INEA – Italy and Slovenia, respectively*

13:00 Overview of Open Call for Tenders

Irene Sevilla de la Llave, ACCIONA R&D, Spain

13:30 Networking Lunch Buffet and Poster Presentation

14:30 NanoLeap Open Call Cases of Success – Viewpoint from the Tenders

- *Senergy (UK)*
- *Thomas Swan (UK)*
- *GrapheneTech (Spain)*
- *ProtheusTech (Spain)*
- *Dema Sri (Italy)*

15:30 NanoLeap Open Call Cases of Success - Viewpoint from the PP owners and consultants

- *Nicoletta Paganella. NANTOCLEANTEACH (Italy)*
- *Esra Kukukpinar. Fraunhofer Institute for Process Engineering and Packaging IVV (Germany)*
- *Nicolò Olivieri. RINA (Italy)*

16:15 The Future of the NanoLeap Project as a Network

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

Roberto Petruccini, ECNP, Italy

16:45 Future Actions Beyond Nanoleap, Open Discussion

Facilitated by Dr Bojan Boskovic (CNT Ltd) & Igor Steiner (INEA)

17:15 Closing remarks

Prof. Jose-Luis Valverde

In order to receive a registration form for participation at the **NanoLeap Open Day 2018 Workshop** please contact Cambridge Nanomaterials Technology Ltd, who is organising this event on behalf of the **NanoLeap Project**: info@CNT-Ltd.co.uk