

International network for nanocarbons

Founded in 2013, the Network NanoCarbon is managed by Nanoinitiative Bayern GmbH. It was partially funded in the framework of the Central Innovation Program for SME (ZIM). Since June 2016, it is self-consistent. Presently the network consists of 21 members: from Germany, Belgium, Luxemburg, Austria, France, Spain, USA, Canada and Australia. The network fosters new chances for international cooperations, joint developments and world-wide commercialisation.

The network's core competencies

- Many years of experience in the field of nanocarbon materials.
- Sound knowledge in the areas of manufacturing and dispersion.
- Relevant expertise, e.g. in the provision of composites or masterbatches for further processing.
- Excellent international contacts.
- Access to modern analytical methods for quality assurance.

We are happy to announce that the Network NanoCarbon has been chosen as a success story of the ZIM program.

Network for innovative nanocarbon products



Become one of our partners!

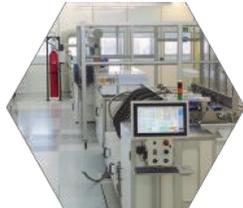
Network NanoCarbon / Nanoinitiative Bayern GmbH
 Dr Stefanie Bertsch
 Josef-Martin-Weg 52
 97074 Würzburg / Germany
 Phone: +49 931 31 - 89376
 Fax: +49 931 31 - 80569
 E-Mail: info@nanocarbon.net
 Internet: www.nanocarbon.net/en



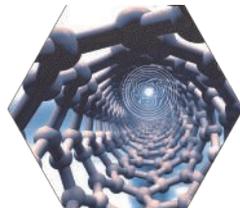
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Networking



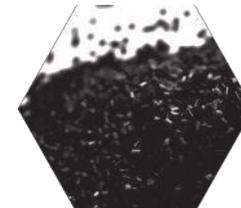
Production of CNTs



CNT



Flywheel energy storage



Masterbatch pellets



Three roll mill

Network and objectives

The network's objective is to promote the industrial and economic benefits of nanocarbon materials through:

- close cooperation with partners
- international exchange of information
- pooling the expertise of all partners
- forming a shared technology platform
- initiating joint projects
- completing value-added chains
- establishing new products and applications for nanocarbons.

The network provides support for the realisation process and also assists in the development and distribution of recommendations for the safe handling of nanocarbon materials.

Further development of process technologies

Nanocarbons, for example carbon nanotubes (CNTs), graphenes, diamonds or carbon nanohorns (CNHs), possess unique material properties:

- electrical conductivity like metals
- thermal conductivity like diamond
- tensile strength 100 times greater than that of steel.

In order to take advantage of these properties, work must focus on, the optimisation and further development of process technologies and process engineering. The technologies of surface functionalisation and dispersion are key to realising the technical potential.

Products and markets

The network sees itself as paving the way for the development of products that are decisively improved by nanocarbon materials. In doing so, the exploration of potential sales markets is equally as important as evaluating the economic viability of the technologies used. Value-added chains from the manufacturer to the end customer should be completed and should be linked to the network.

The NanoCarbon Network pools and utilises partners' existing expertise. It accelerates, accompanies and supports rapid technology transfer from research and development results into commercial products. The focus here lies, in particular, on supporting small and medium-sized enterprises.

*Photos: NanoCarbon Annual Conference 2016 und 2017
Source: Nanoinitiative Bayern GmbH*

