

Baytubes® News

Innovation alliance CNT has been launched



Dr. Wolfgang Plischke, the Board member responsible for research, and Thomas Rachel, Parliamentary State Secretary at the Federal Ministry of Education and Research (BMBF), with a model and a sample of carbon nanotubes.

Under the lead of Bayer MaterialScience AG (BMS) and in cooperation with more than 70 partners from German industry and science, the innovation alliance CNT or in short "Inno.CNT" - has been launched. In 18 concerted projects within this project cluster, solutions for production, modification and application of carbon nanotubes shall be developed in a timeframe of 4 years. The Federal Ministry of Education and Research in Germany (BMBF) will support this research initiative in the framework of the German hightec strategy with funds totaling 40 million €. Additional 240 million € will be invested into this promising innovation technology by all participating partners headed by BMS during the project lifetime and afterwards for R&D activities, technical plants as well as infrastructure.

More information can be found at: www.inno-cnt.de

Baytubes® are now also available in the United States

Bayer MaterialScience has received regulatory approval from the U.S. Environmental Protection Agency (EPA) for Baytubes®, its multi-wall carbon nanotubes. This enables the company to sell Baytubes® on the American market and reinforces Bayer MaterialScience's role as one of the world's leading manufacturers in carbon nanotubes. The approval covers Baytubes® C 150 P and HP grades that are produced in a plant in Laufenburg, Germany, with an annual capacity of 60 metric tons.

Read more at: <http://www.presse.bayer.de/baynews/baynews.nsf/id/8DFA5784ECCA0A8DC1257524002C7405>

Baytubes® at nano tech 2009 in Tokyo, Japan on February 18 -20, 2009

Bayer MaterialScience AG will participate from Feb. 18-20 at the nano tech 2009 for the 4th year running. New applications will be shown, and our experts will be present to answer your questions.

Meet us at the Tokyo Big Sight, East Hall 4, German pavilion, stand C-21/02. We look forward to seeing you!

For more information please visit: <http://www.nanotechexpo.jp/en/>

Asian versions of Baytubes homepage online

The Baytubes® homepage is now available in Japanese, Chinese and Korean. Bayer MaterialScience is delighted to offer Asian interested parties the opportunity to inform themselves in their mother tongue.

New language versions: <http://www.baytubes.com/jp/>
<http://www.baytubes.com/kr/>
<http://www.baytubes.com/cn/>

Industry News

Electrically conductive polyester yarns by dye-printing with Baytubes®

Using a dye-printing approach, a group of researchers led by B. Fugetsu from Hokkaido University has applied Baytubes® directly to polyester multifilament yarns to form an electrically conductive layer over each filament of the multifilament yarn. The Baytubes® dyestuff was prepared by dispersing Baytubes® aggregates in water using a blend of zwitterionic and anionic surfactants. Yarns with electrical resistivity ranging from 103 to 109 ohm/cm were obtained which could be used for antistatic clothing, brushes for photocopying machines as well as for electrical heating.

Further information could be found at: <http://dx.doi.org/10.1016/j.carbon.2008.11.013>

What we think about it:

We believe that the applications described in the article could reach industrial proportions within a short period of time and look forward to accompany the next development steps.

Baytubes® provide self-extinguishing grade to silicone-based foams

The Institute of Polymer Science and Technology, ICTP, of the Spanish Council for Scientific Research, CSIC, in Madrid has examined the feasibility of using Baytubes® as a fire retardant additive in silicone based foams. Before preparation of the foams, Baytubes® were mechanically blended with polydimethylsiloxane reactants without any previous functionalization treatment. The flammability of the resulting foam was characterized as a function of the filler content using a standard fire test method. The limiting oxygen index increased as a function of Baytubes® content, attaining the self-extinguishing grade even at a mass fraction as low as 0.5 wt% of carbon nanotubes.

Read more at: <http://www.rsc.org/ej/JM/2008/b805943h.pdf>

What we think about it:

We believe that Baytubes® may have the potential to evolve into an efficient flame retardant additive for some polymer systems and look forward to future results in this field.

If you have any questions or need further information please contact us:

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If you do not wish to receive further information from Bayer MaterialScience - Coatings, Adhesives & Specialties, please reply to this email with an "unsubscribe" in the subject heading.

Impressum

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