



*Hall 6 Stand A16/07 (NANO site) at the HANNOVER MESSE 2008  
from 21 April – 25 April 2008*

**PRESS RELEASE**

**Nanogate AG at the HANNOVER MESSE 2008:**

**New generation surface enhancement for cars and engineering**

**nanoPlating<sup>®</sup> product family enables functionalisation of metals / other innovations for engineering and car manufacture.**

**Saarbrücken/Hannover, 21 April 2008. During a press conference at the Hannover Messe, Management Board member Michael Jung presented Nanogate AG's new product developments for cars and engineering. One focus was energy efficiency. The new nanoGlide<sup>®</sup> product family enables reduced-friction surfaces for heavy duty components. In particular, metal matrices using this technology can have new functions with the integration of nanostructures. The industrial pilot facility for the nanoPlating<sup>®</sup> process developed by Nanogate has been in successful production since the beginning of the year.**

Each year German industry suffers enormous losses due to friction. According to a study by the Fraunhofer Institute, the damage caused by such friction may represent as much as 4.5 % of gross domestic product. This results in annual losses in the billions for German industry. It is not only that friction wears away materials and components, but it also wastes a lot of energy. Enhancement of components significantly reduces friction. This protects the material used and increases energy efficiency.

The nanoGlide<sup>®</sup> product family represents a new generation of surface enhancement. For the first time Nanogate is using electrochemical processes to functionalise metal surfaces in their matrix. This produces much more stable and anti-friction surface enhancement than traditional surface enhancement



materials and can be functionalised with further qualities according to requirements. Friction minimisation and increased abrasion resistance is a particularly attractive combination for industry.

Potential customers come from suppliers in automobile manufacture and for the manufacturers of engineering components. Nanotechnology is already offering interesting solutions made possible by the new generation of metal enhancement which fulfil more precise and profitable requirements.

As well as the core theme of Nanoplating, Nanogate presented further innovations for engineering and automobile construction. Special isolation coatings for electronic components and multifunctional plastic surfaces for automobile components were demonstrated. Nanogate also presented a significant expansion in its anti-corrosive protection product family, which also includes input from the current collaboration with Clariant. Anti-corrosive protection products from Nanogate are particularly suited to light metals such as the growth market aluminium.

“Energy and resource efficiency is one of the most important challenges of our time and for future years,” said Michael Jung, Member of the Management Board of Nanogate AG. “Our nanoPlating® technology platform, which is used as a basis for the continuing development of the nanoglide® product family is the ideal starting point for making industrial processes more efficient. This not only creates competitive advantages for our customers but also plays an active part in sustainable use of resources.”



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**Nanogate AG:**

Nanogate is a leading international enabler in the nanotechnology growth market and so opens the gate to this technology for its customers. The Saarbrücken-based firm enables the programming and integration of additional properties such as non-stick, anti-bacterial, anti-corrosive, ultra-low friction. Nanogate thereby gains a competitive edge for its customers by product refinement using chemical nanotechnology. Nanogate covers a wide range of industries, functions and substrates already on the basis of technology platforms. The company thus provides a decisive interface for the commercialisation of chemical nanotechnology, bridges the gap between raw materials and their industrial conversion into products and concentrates as an enabler on one of the most attractive segments in the industry. As a partner in innovation, Nanogate provides many services along the value chain – from development and production of innovative nanocomposites and nanostructured materials to powerful support for innovation and product integration.

The Nanogate Group currently has 57 employees in all (as of 1 July 2007) and since commencing operations in 1999 has been a pioneer in nanotechnology. Nanogate is a high-growth company and has operated profitably since financial year 2004. In financial year 2006 it boosted consolidated sales by about 64% to around €7.84 million. Consolidated earnings before interest and taxes (EBIT) to IFRS increased by about 220% to around €1.1 million in 2006. The company has first-class customer references, such as ABB, BSH Bosch-Siemens Hausgeräte, Kärcher and Koenig & Bauer AG, and many years' experience of different industries and applications. It has also entered into strategic cooperation with US companies Dow Corning and Ceradyne/ESK Ceramics and Authentix and with Giesecke & Devrient. The Group's consolidation entity includes Nanogate Advanced Materials GmbH, which specialises in safety engineering and optics and is a joint venture with the US Air Products group. Nanogate also holds a strategic investment with a majority option in HOLMENKOL Sport-Technologies GmbH & Co. KG.

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