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Breakthroughs and potential application of Nanotechnology

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The results of the knowledge and experiences from the last 20 years will be summarized. On the basis of the available information, the research and innovation strategy, action plan and roadmaps for the next decade will be highlighted, as well for nanomedicine, nanopharma, Nano dentistry, nanofoods as for Nano informatics and communication, Nano energy and transport and Nano environment and nanotechnology in daily life. Potential areas for successful developments in industry will be discussed covering the whole spectrum of nanotechnology. Attention will also be given to topics related to the acceptance of nanotechnology by the society, including nanotechnology risks and regulations by governments and authorities for safe working conditions and for security of consumers. The breakthroughs of nanomaterials in the 4th industrial revolution already starting will be highlighted e.a. nano for the aging population, car without driver and traffic jump problems, nanofoods for the next generations world over-population, problems with the environment etc. Special attention will focus on the importance on education of nanotechnology at universities with the need on worldwide uniform training systems. Finally, international/worldwide perspectives for nanotechnology cooperation will be encouraged.

Biography:

Prof. Marcel Van de Voorde has PhD degrees in natural and technical sciences. He is ewr. Professor form the University of Technology, DELFT (NL) and visiting professor at recognized universities worldwide. He also had research direction functions at CERN (European organisation for nuclear research), Geneva in Switzerland, European Commission Research in Brussels and Max Planck institute at Stuttgart in Germany. He is co-founder of IMEC, a technology Centre in Leuven, Belgium with 2000 science employees. Prof. Van de Voorde is senator of the European Academy for Sciences and arts in Salzburg and trustee at the world academy for sciences in the US. He is member and/or chairman of multiple research councils and management boards all over the world. He is expert in nanoscience and nanotechnology and recently edited an encyclopedia of 15 volumes published by Wiley Germany in 2017. He also co-authored a study book on Engineering, Medicine and Science at the nano-Scale with prof. Stephen Fonash of Pen State University and director for nano-education at US-NSF in Washington

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