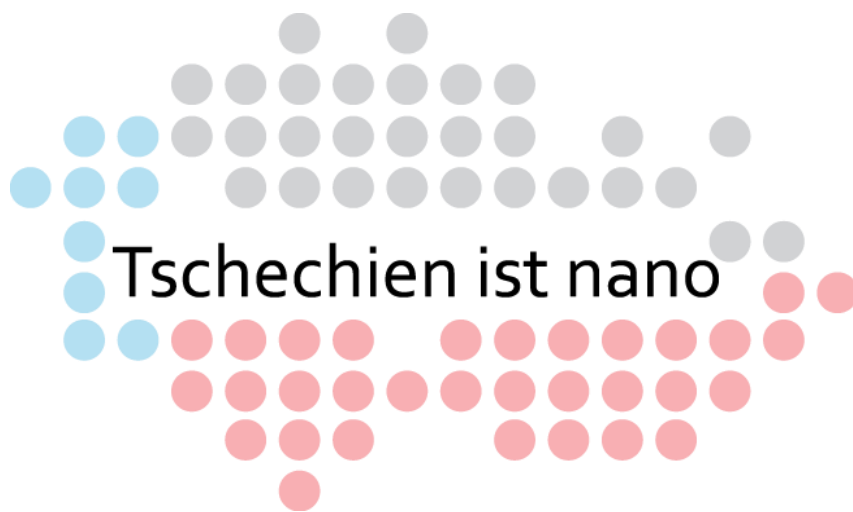


Praktische Nutzung von Nanotechnologien

20.4.2016



Botschaft der Tschechischen Republik

Penzingerstraße 11-13

1140 Wien

Die teilnehmenden Unternehmen

ACTIVE HOLIDAY

www.swim-nappy.com
www.for3dom.com

Keywords: swim nappy, baby swimming equipment, functional underwear

Introduction: Company ACTIVE HOLIDAY, Ltd. Founded in 2003, we started as a wholesaler with sports - tennis goods. In 2007, we expanded the distribution of baby swimming equipment, and in 2013 we started our own manufacturing of SWIM NAPPY, that are currently most focused on.

Concurrently we produce infant and child functional underwear, and offers special multifunctional Nano underwear for racing professional sports - hockey, football, winter and indoor sports.



ADVANCED MATERIALS-JTJ

www.amjtj.com

Keywords: photocatalysis, air purification, titan dioxide

Introduction: Advanced Materials-JTJ was founded in 2003 with the main focus on commercialization of photocatalysis, material chemistry and development of new applications of nanomaterials. AM-JTJ introduced its own industrial process of manufacturing of photocatalytic multifunctional paints for air purification. A number of patents protect the technology in the Czech Republic, Canada, China, South Africa, USA and many others are pending. Simultaneously, the company has developed a patented large-scale technology to produce TiO₂ nanoparticles with high efficiency.



HE3DA

www.he3da.cz

Keywords: energy storage, fuel cells

Introduction: Li-Ion battery based on thick-layer (3D) electrodes, developed by HE3DA, represents a brand new technological platform for a new generation of high capacity batteries – way to further extend the Li-accumulator capacity and provide required safety. 3-D concept of the accumulator not only increases capacity of individual cells but also significantly reduces size of assembled modules.

IQ STRUCTURES

IQ STRUCTURES

www.iqstructures.com/

Keywords: nanostructures & nanopatterning, holography, nanoprinting, fuel cells

Introduction: IQ Structures is a technology company focusing on incorporating of micro- and nanostructures into different materials and approaches for production of high-end products for end consumers, business to business, governments and scientific institutions. IQ Structures uses cutting-edge technologies and equipment to develop special surface structures that enhance materials with specific mechanical, optical, electrical and physicalchemical properties. The company has a team of top experts in the fields of optics, theoretical and applied physics, chemistry, and material science.



JIMIplet

www.jimiplet.cz/

Keywords: yarns, nanosilver

Introduction: Company produces yarns for clothing, medical and technical purposes, antibacterial knitted fabrics produced with trade mark nanoAg®, multifunctional textile fabrics with nanoparticles of Ag used after the spine surgical operations



NAFIGATE

www.nafigate.com

Keywords: nanofibers, bioplastics

Introduction: Beginning with a technology of bioplastics production acquired from Brno University of Technology, NAFIGATE Corporation Inc. later on established the Global Innovation Centre of Nanofiber Applications, which fulfils the vision of creating a truly global networking and cooperation platform for the world's top experts in the field of nanofibers. This cooperation is essential to accelerate the process of bringing final nanofiber applications to consumers. In May 2013 the platform was launched in China as well, and the first application projects are already being implemented there. Apart from bioplastics, the company develops new applications of nanofibers in various fields such as cosmetics, water treatment or air filtration.



Nanopharma, a.s.

www.nanopharma.cz

Keywords: nanofibers, electrospinning, drug carriers & delivery systems, scaffolds, regenerative medicine, additives, biomedicine

Introduction: Nanopharma is an engineering company focusing on research, development and production of innovative materials using nanofiber structures in the specific needs of research and industry. The company is heavily involved in the development of unique medical devices based on nanotechnology, such as regenerative medicine and tissue engineering.



NANOPROGRES, z.s.p.o.

www.nanoprogres.cz

Keywords: nanofibers, electrospinning, drug carriers & delivery systems, scaffolds, regenerative medicine, additives, biomedicine

Introduction: Cluster Nanoprogres is focusing on research and development of functionalized nanofiber structures and its application to industry and medicine. We are involved in the European Strategic Cluster Partnership in new emerging industry and belong to the category of European excellent clusters under the European Initiative of Cluster Excellence. Within the joint research activities we developed sophisticated methodologies for functionalization of nanofiber structures, built new technological equipment for production of core-shell nanofibers and new equipment based on the worldwide unique AC electrospinning technology. Also the application potential of wide range of functionalized nanofiber structures to medicine and industry was determined.



NANOSPACE

www.nanospace.cz/world/

Keywords: nanofibers, bedding, toys, anti-allergic, anti-dust mite

Introduction: NanoSPACE is a new dynamic company that operates in the Czech Republic and international markets, specializing in nanofibre products. It is the first company in the world that manufactures nanofibre barrier bedding covers and anti-dust mite toys. This innovative way to protect against dust mites and their allergens places nanoSPACE among the world's leading manufacturers of anti-allergic protective coatings for bedding

NanoTrade

S.r.o.

NANOTRADE

www.nanotrade.cz

Keywords: nanoproducts, surface treatment, hydrophobic treatment, technology transfer

Introduction: NanoTrade is a leading Czech company in the field of nanotechnology R&D and its application. Since 2004 NanoTrade have realised technology projects for textile, paper and plastic producers and managed and implemented several projects in these areas. NanoTrade provides testing and development of new materials, technologies and applications in the nanotechnology field. It also produces new nanomaterials. Furthermore, NanoTrade analyses, defines and prepares projects and production programs, relevant marketing, consultation services and trading activity in nanotechnology products.



NANOVIA

www.nanovia.cz

Keywords: nanofibers, industrial-scale production, membranes

Introduction: Nanovia is the first company in the Czech Republic and practically even the first in Europe to have the capacity for industrial production of nanofibrous material. This capacity is used for manufacturing barrier fabrics introduced to the market under its own brand names Nanovia AntiAllergy, Nanovia AntiMicrobe and Nanovia Waterproof, as well as Nanovia filtration materials. Apart from these, Nanovia is the only company in Europe to offer its own production capacity for custom-made nanofibrous materials for different applications and final products.



PARDAM

www.pardam.com/

Keywords: ceramic & organic nanofibers, forcespinning

Introduction: Pardam, s. r. o. produces high-quality nanofibrous materials (inorganic NnF CERAM© and polymer NnF MBRANE©) manufactured using industrial forcespinning production technology. Pardam has been focusing on production and development of nanofibrous materials since 2009 and has extensive experience with electrospinning and forcespinning production technology. Various applications in e.g. separation membranes, battery separators, catalysts.



VTI

www.vti-cz.com

Keywords: water treatment, membrane separation

Introduction: VTI continues in the work of the Research Institute of Nanotechnology, which was established in 1997 as a research / commercial company active in the protection and regeneration of contaminated water. The main focus of this company is a new method of physical water treatment without chemicals, using Technology of Hybrid Asymmetric Selective Membrane Separation – THASMS. This provides the basis for our wide use of applications – from complete optimization of the commercial processes based on the reuse of water (recycling) through to producing drinking and industrial water. This completely unique process is based on reverse TMC mineralization.

Partner und ihre Kontakte

Handelsabteilung der Tschechischen Botschaft

Penzingerstr. 11-13

A-1140 Wien

Phone: +43 1 899 58 168

Email: commerce_vienna@mzv.cz



Tschechische Botschaft in Österreich



Czechmfa_AT



Czechmfa.at



<http://www.tschechischerepublik.at/>



Botschaft der Tschechischen Republik
in Österreich

Fachverband der Nanotechnologischen Industrie der Tschechischen Republik

Lanova 2061/8

Nové Město, 110 00 Prag 1

Jiří Kůs

Vorstandsvorsitzender, CEO

Phone: +420 603 417 229

Email: jiri.kus@nanoasociace.cz

Pavel Malůš

Sekretär für Organisation und Öffentlichkeitsarbeit

Phone: +420 608 888 065

Email: pavel.malus@nanoasociace.cz



nano asociace

ASOCIACE NANOTECHNOLOGICKÉHO PRŮMYSLU ČR



Cesko je nano



NanospaceNews



<http://www.nanoasociace.cz>

CzechInvest, Agentur für Wirtschafts- und Investitionsförderung

Stepanska 15

120 00, Prag

Phone: +420 296 342 579

Email: fdi@czechinvest.org



CzechInvest



CzechInvest



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<http://www.czechinvest.org/de>



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Agentur für Wirtschafts- und Investitionsförderung