



**NANOTECH 2014**  
**Tokyo**

**Partners from the CZECH REPUBLIC**



# Technology Centre of the Academy of Sciences of the Czech Republic



## Contact details of the company

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## Specific information for the fair

Mobile phone: +420 602 973 983  
Booth number: 6S-26  
Year funded: 1994  
Sectors: all  
Activities: support of innovation and technology transfer, project collaboration ([www.een.cz](http://www.een.cz))  
Company size: 70

## Technology Profile

Title: Technology Centre ASCR

What we offer: Technology Centre ASCR is engaged in technology transfer, it is the National information centre for European research, supports start-up and development of high-tech enterprises and participates in strategic studies and projects focused on perspectives of research and development, new technologies and innovation strategies. Since 2008 Technology Centre ASCR is a co-ordinator of the Enterprise Europe Network in the Czech Republic and a member of the international Enterprise Europe Network (<http://www.enterprise-europe-network.ec.europa.eu>). The company is looking for innovative technologies and offers innovative products of their clients – companies from the Czech Republic.

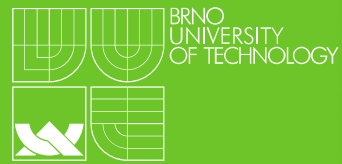
Collaboration: Transfer of technologies, business and information support of clients, transfer of knowledge, partner search, project collaboration

Looking for: The company is looking for innovative technologies and partners. Technology Centre offers innovative products of their clients – companies from the Czech Republic.



CEITEC

Central European Institute of Technology  
BRNO | CZECH REPUBLIC



## CEITEC

### Contact details of the company

Company: CEITEC Brno University of Technology  
Head of executive: prof. Radimir Vrba  
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### Specific information for the fair

Name of person: Jan Ostřížek, Ph.D.  
Mobile phone: +420 777 821 894  
Booth number: 6S-26  
Activities: Head of Scientific Support Office

### Technology Profile

Title: CEITEC Brno University of Technology

#### What we offer:

Central European Institute of Technology - Brno University of Technology (CEITEC BUT) is an independent institute at Brno University of Technology, which was established under the framework of CEITEC - the Central European Institute of Technology.

CEITEC BUT constitutes a key element of world-class research infrastructure, built at the University Campus of Brno University of Technology in Pod Palackého vrchem, providing state-of-the-art equipment and ideal conditions for fundamental and applied research, especially in the area of material sciences.

CEITEC BUT priorities include providing an international dimension in research cooperation as well as ensuring its interdisciplinary character. Core Facilities will become an interconnecting element among various research disciplines, as they will create a perfect base for addressing interdisciplinary questions in the fields of advanced nanotechnologies, microtechnologies and advanced materials.

### Advanced nanotechnology and microtechnology

The research is focused on the area of nanotechnologies covering materials and structures to be exploited in nanoelectronic and nanophotonic applications. The

research involves the preparation, characterization and analysis of the properties of nanostructures enabling active application of principles, which determine unique and specific properties of nanostructures. Attention will be paid to the research of 2D – 0D nanostructures produced by lithographic (top-down) methods and self-organizing (bottom-up) methods. The research will consider semiconductor nanostructures, magnetic and metallic nanostructures, nanotubes and nanofibres, supra-molecules and nano-electronic material on the edge of Moore's law etc.

### **Advanced Materials**

The programme of Advanced materials will be focussed on advanced (functional and structural gradient, nanostructural and smart) ceramic materials, polymers, metals and composites. Basic research will be focussed on advanced methods of synthesis (or preparing) of advanced materials and multifunctional composites with polymeric, ceramic, silicate or metallic matrixes, characterization of their structures on various dimensional scales and quantifying structure-property-function relationships on the various structural levels Combined research in the field of advanced ceramic materials, polymeric composites and metallic composites will be focussed on applications in medicine, electrical engineering, power engineering, engineering, chemistry and building engineering.

### **Core Facilities at CEITEC BUT Infrastructure**

- 1 337 m<sup>2</sup> of cleanrooms (class 100 – 100 000)
- university laboratories at Brno University of Technology (100 m<sup>2</sup> of class 100 000 cleanroom) and
- Masaryk University (120 m<sup>2</sup> of class 1 000 cleanroom)
- over 60 fabrication and processing instruments in the cleanrooms
- additional equipment is located in separated labs, such as the unique microtomography station, NMR,
- holographic microscope, fluorescence and confocal microscopes and accessories etc.

### **Collaboration:**

In respective fields covering **Advanced nanotechnology and microtechnology** and **Advanced Materials** research programmes. The research groups to collaborate are as follows - Functional Properties of Nanostructures, Smart Nanodevices, Experimental Biophotonics, Fabrication and Characterisation of Nanostructures, Development of Methods for Analysis and Measuring, X-ray micro CT and nano CT, Optoelectronic Characterisation of Nanostructures, Micro and Nanotribology, Plasma Technologies, Synthesis and Analysis of Nanostructures, Transport and Magnetic Properties, Advanced Ceramic Materials, Cybernetics in Material Science, Advanced Polymers and Composites, Advanced Metallic Materials and Metal Based Composites and Advanced Coatings.

### **Looking for:**

Partners for scientific collaboration – collaborative research (services, troubleshooting), applied research, scientific projects, using of Core Facilities.

## NANOPROTEX Ltd.



### Contact details of the company

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### Specific information for the fair

Mobile phone: +420 731 626 617  
Booth number: 6S-26  
Sectors: textile, industry, medicine,  
industry, chemistry  
Activities: Nanofiber membrane for outdoor, sports and military  
purposes, NANO treatment textile and non-textile surfaces



### Technology Profile

Title: NANOPROTEX Ltd.

About us: Since its foundation in the Czech Republic, the NANOPROTEX company has cooperated intensively with eminent colleges from throughout the world in the development of new nanofiber products with significant added value.

In cooperation with the Faculty of Textile Engineering at the Technical University in Liberec, NANOPROTEX was the first to develop a new nanofiber membrane for outdoor, sports and military purposes with excellent properties including extremely high steam permeability, water resistance with high water column and 100% wind resistance.

NANOPROTEX products can also be used in other industries that require Hi-tech technologies such as NANOPROTEX nanofibers. The presented NANOPROTEX products are protected by a number of patents.

Products: Nanofiber membrane:  
A nanofiber membrane made by NANOPROTEX can boast of extremely high steam permeability, which is given by the unique nanofiber structure, and a nanofiber diameter which is only 150 nm (those are the finest fibres ever used in the textile industry). The research team found additional inspiration for nanofiber membrane

development in human skin, which enables the so-called insensible perspiration. Thanks to this structure and nanofiber diameter the NANOPROTEX nanomembranes have more pores per given area compared to microporous membranes. This results in the steam permeability of the 2-layer laminate (face fabric + nanofiber membrane) Ret below 1.5 Pa.m<sup>2</sup>.W-1. The steam permeability of the nanofiber membrane itself is Ret 0.0 Pa.m<sup>2</sup>.W-1.

Thanks to the unique technologies used in the production of NANOPROTEX nanofiber membranes and their lamination, the hydrostatic resistance ranges from the basic 10,000 mm to 50,000 mm+ while maintaining its extremely high steam permeability, i.e. Ret for 2-layer laminates below 1.5 Pa.m<sup>2</sup>.W-1.

NANO treatment:

NANOPROTEX introduces its new development – ultra-water-repellent coating of both textile and non-textile surfaces. It is a patent protected technology developed by the NANOPROTEX R&D team, who took their inspiration for the ultra-water-repellent surface from the nature, namely the lotus flower.

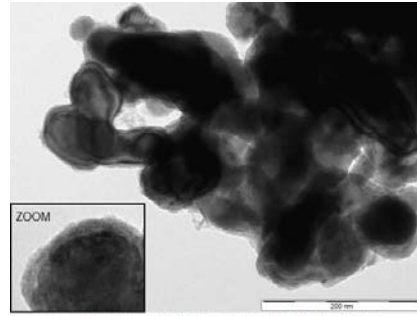
**The ultra-water-repellent effect developed by NANOPROTEX consists in the coating of every single fibre in an invisible layer of nanoparticles, causing dry particles, such as dust, to be unable to hold on the surface, and preventing wet impurities from penetrating the structure.** Water, wine, coffee or fats will form 'pearls' on the textile and non-textile surfaces treated by the NANOPROTEX technology. Moreover, the treated surfaces are either washable or they may be cleaned by common cleaning liquids.

Surfaces treated by the NANOPROTEX technology show the following qualities:

- Water - and oil - resistance
- Germ - and mould - resistance
- Self - cleaning ability
- 100% skin friendliness

**Contact details of the company**

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Booth number: 6S-26  
Sectors: Environment, water treatment  
Activities: Research and trade focused on groundwater remediation, wastewater treatment and other applications involving utilization of zero-valent iron nanoparticles and ferrates



Transmission elektron microscopy (TEM) images of nanoparticles with the oxidic shell.

**Technology Profile**

Title: Nanoiron Ltd.

**What we offer:**

NANOIRON Ltd. is engaged in a production and technical support in the applications of nanoparticles of elementary iron (Fe (0), nZVI = nanoscale Zero Valent Iron). The company disposes of a unique, environmentally friendly and wasteless technology enabling production of Fe (0) nanoparticles at the industrial scale with almost unlimited production capacity.

NANOIRON, s.r.o. is a Science and Technology company, which also focuses on the development of new environmental applications of Fe (0) nanoparticles, study of their effective stabilization and reactivity with selected pollutants.

The produced iron nanoparticles are delivered in the form of long-term stable aqueous dispersions (NANOFER 25, NANOFER 25S) suitable e.g. in ground water remediation and waste water treatment. As a special product the company offers pure nanopowder of zero-valent iron in the dry state preserved in the inert atmosphere (NANOFER 25P) suitable for further processing and modification. New air-stable nZVI nanopowder NANOFER STAR is currently also available.

Collaboration: Commercial applications, trade, common research

**Looking for:**

Nanoiron is looking for clients using Nanofer products, which are highly applicable in the reduction technologies of ground water remediation, hutch water, industrial water and waste water treatment and many other applications due to the extraordinary reduction capabilities, small size of particles in the range of several tens of nanometers and high reactivity with a broad spectrum of toxic substances (list of contaminants).

NANOIRON, s.r.o. is ready to provide free of charge samples of NANOFER 25, NANOFER 25S and NANOFER STAR products in small volumes primarily for scientific and R&D purposes. The company reserves the right to refuse sending free of charge samples.

**Contact details of the company**

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**Specific information for the fair**

Name of person: Jiří Kůs  
Mobile phone: +420 603 417 229  
Booth number: 6S-26  
Sectors: Anti-allergy bedding with nanofiber fabrics

**Technology Profile**

Title: Anti-allergy bedding with nanofiber fabrics

What we offer: Anti-allergy bedding with barrier nanofiber fabrics (blankets, pillows, mattress covers, bedding covers, baby bedding)  
Anti-allergy handmade toys with barrier nanofiber fabrics

Collaboration: Looking for: distributors, agent

Looking for: NanoSPACE s.r.o. as a new company on the market of anti-allergy beddings offers a very different, totally new and unique solution which uses the so-called sandwich material of nanofibers made in Czech Republic. The nanofiberous barrier applied in these products is based on principle of making fibers from polymer solution in electric field which allows the industrial production of nanofiberous structures. This technology enables to achieve an uniform nanofiber layer.

NanoSPACE is also the first company in the world offering anti-allergy toys using nanofiber fabrics.



## EMPLA AG Ltd.



### Contact details of the company

Managing director, Chemistry Section Director

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### Specific information for the fair

Name of person: Stanislav Eminger, Eng., Ph.D.  
Mobile phone: +420 602 185 047  
Booth number: 6S-26  
Activities: Complex environmental protection services

### Technology Profile

What we offer: EMPLA AG Ltd. was founded in 1991 and it deals with research, development and technology implementation for environmental and health protection. The company owns ecological laboratories No. 1110 with equipment, accredited by national authority CIA according to the standard CSN EN ISO/EC 17025.

We afford complex environmental protection services :

- authorized measuring emission, immission and smell substances
- the reports of air-pollution analysis (studies of dispersion, expertise)
- the measuring of working environment factors (noise, vibration, chemical injurants, dust, asbestos, microclimatic conditions)
- water and groceries takings and analyses
- soil, sediments, waste and firm materials analyses
- evaluation of dangerous waste features, eco-toxicological leach testing
- Environmental Impact Assessment projects (EIA, SEA), evaluation of health hazards
- elaboration of Integrated Pollution Prevention and Control (IPPC)
- projection, production and realization of waste treatment plant and softening plant
- training and educational seminary, retraining course and environment protection consultancy

In this branch the company belongs to the forefront workplaces. And not only in the Czech Republic, but it managed to reach a good name in European Union and in overseas. EMPLA AG is the only company in the Czech Republic, which provide such complex ecological services.

Collaboration - We cooperate with the following companies in EU:

Toyota Peugeot Citroën Automotive Czech  
Daikin Device Czech republic  
Panasonic Automotive Systems Czech  
KYB Manufacturing Czech  
Takenaka Europe  
Showa Aluminium Czech

Looking for: We are looking for new business contacts.

# Centre for Nanomaterials, Advanced Technologies and Innovations



## Contact details of the company

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Booth number: 6S-26  
Sectors: Environment, human safety, biotechnology

## Technology Profile

Title: Centre of Nanomaterials, Advanced Technologies and Innovations

What we offer: The institute concerns on application of nanomaterials in various fields. Miroslav Cernik interests in application of nanomaterials in environmental protection, remediation of contaminated soils and groundwater, and risks of nanomaterials for living bodies. Major concerns is treatment of contaminated soils by zero-valent iron nanoparticles for dechlorination of chlorinated hydrocarbons, pesticides, heavy metals and radionuclides. Second direction is using of nanofibres for wastewater treatment.

Collaboration: Commercial applications, common research

Looking for: Centre of Nanomaterials, Advanced Technologies and Innovations is looking for clients using Nanofer products, which are highly applicable in the reduction technologies of ground water remediation, hutch water, industrial water and waste water treatment and many other applications due to the extraordinary reduction capabilities, small size of particles in the range of several tens of nanometers and high reactivity with a broad spectrum of toxic substances (list of contaminants).  
Centre of Nanomaterials, Advanced Technologies and Innovations is ready to provide free of charge samples of NANOfer 25, NANOfer 25S and NANOfer STAR products in small volumes primarily for scientific and R&D purposes. The company reserves the right to refuse sending free of charge samples.

# Regional Centre of Advanced Technologies and Materials, Palacký University In Olomouc, Faculty of Science

## Contact details of the company

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REGIONAL CENTRE  
OF ADVANCED TECHNOLOGIES  
AND MATERIALS

Regionální centrum pokročilých technologií a materiálů

## Specific information for the fair

First name: Lubomír  
Last name: Lapčík  
Mobile phone: +420 732 506 770  
Booth number: 6S-26  
Year funded: 2010  
Sectors: medicine, industry, environment, cosmetics, food, agriculture, textile, chemistry  
Activities: fabrication, contract research, nanomaterials, nanoevaluation

## Technology Profile

Title: Centre of Nanomaterials, Advanced Technologies and Innovations

What we offer: The main objective of the Regional Centre of Advanced Technologies and Materials (RCPTM) is a regular transfer of the developed high-tech technologies into the medicinal, industrial and environmental practice and a participation of the Centre in the prestigious international networks and consortia. RCPTM focuses predominantly on the top research in the metal oxide nanoparticles for catalytic and magnetic applications, carbon nanostructures, metal nanoparticles for antimicrobial and water treatment technologies, coordination chemistry, photonics, new instrumentation in optics and analytical chemistry. One of the main goals is also to offer the first-rank microscopic, spectroscopic, magnetic and other devices for the commercial utilization.

Collaboration: Commercial applications, common research in the following areas:  
**electronics:** quantum, photonics, micromachine, advanced semiconductor, electroluminescence  
**nanobiology:** regenerative medicine, drug design, bioreactor, health care, biosensor  
**automobile:** lighting material, coating material, sensor lighting  
**environment:** solar, energy harvesting, photo catalyst, monitoring, sensor, restoration material, agriculture, pollutants, biomass  
**life:** medicinal product, cosmetic related materials, cosmetic technology, functional food, food analysis, food processing  
**others:** agriculture, textile, sporting goods, construction

Looking for: The RCPTM has a long and rich tradition in co-operation both with the industry and state in the fields of applied and contractual research. The co-operation with foreign entities represents a significant part of contract research. As for subject, activities of departments of the Centre range from chemical analytic services, through microscopic analysis and characterisation of physical and chemical properties of materials, to extensive co-operation in the field of medicine, decontamination of underground water or applied application of the results. The RCPTM offers an analytical analyses , the use of infrastructure in the sphere of project collaboration.

**Contact details of the company**



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**Specific information for the fair**

Mobile phone: +420 734 436 633  
Booth number: 6S-26  
Year founded: 2009  
Sectors: NANOFIBERS / filtration / composite materials / energy storage / fuel cells / gas sensors etc..  
Activities: industrial production of polymer and inorganic nanofibers, development of final applications and new nanofiberous materials  
Company size: 15

**Technology Profile**

Title: Kertak Nanotechnology Ltd.

About us: Kertak Nanotechnology Ltd. is a supplier of high quality inorganic nanofibers and nanofiber products manufactured by industrial-scale technology operated by company **Pardam**. Thanks to the unique technology Kertak takes the position of the world leader in supplying of high quality and performance inorganic "ceramic" and polymer nanofibers.

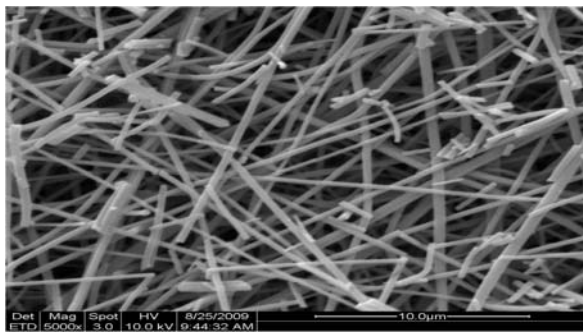
Ceramic nanofibers, thanks to its unique properties (big surface area, big porosity, good breathability, big surface to volume ratio, stable structure etc.) can find its applications in many products such as DSSC anode, Li-ion batteries anode or cathode, Li-ion battery/Fuel cell separator, Catalyst, Catalyst support, Photocatalyst, Gas sensors, Thermal insulators, Metal or Ceramics nano-composites, Dehumidifiers, Abrasives, Thermal barrier coatings, Filtration etc. Novel properties of inorganic materials open new horizons for a wide range of products and applications. Also novel properties of nanofiberous polymeric membranes enable production of filtration materials for water and air purification.

Services:

- Industrial production of inorganic nanofibers ( $\text{TiO}_2$ ,  $\text{SiO}_2$ ,  $\text{ZrO}_2$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{Li}_4\text{Ti}_5\text{O}_{12}$ ,  $\text{CeZrO}_4$ , ITO, etc);
- Industrial production of polymer nanofibers (Nylon 6, PUR, PANVA, ...);
- Development and laboratory production of new nanofibrous materials for universities and R&D teams ( $\text{In}_2\text{O}_3$ ,  $\text{SnO}_2$ ,  $\text{WO}_3$ ,  $\text{CeO}_2$ ,  $\text{LiFePO}_4$  and many other oxide, carbide and nitride nanofibrous materials, which can be easily scaled up to industrial production);
- Customization of parameters of inorganic nanofibers in accordance to customers demand;
- Post treatment of inorganic nanofibers - doping, cutting etc;
- Production of nanofibrous products such as membranes, pellets, sheets, dispersions, etc.;
- Development of final applications based on inorganic nanofibers;

Looking for:

Kertak is looking for customers who would be interested in their products. They are also looking for R&D partners for the development of final applications and new nanofibrous materials for partners products.



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### Specific information for the fair

Mobile phone: +420 608 317 239  
Booth number: 6S-26  
Sectors: Protective accesories, Personal health  
Activities: Research and trade focused on appropriate protection of respiratory tracts by every day use or by the event of an airborne virus epidepics or pandemic.

### Technology Profile

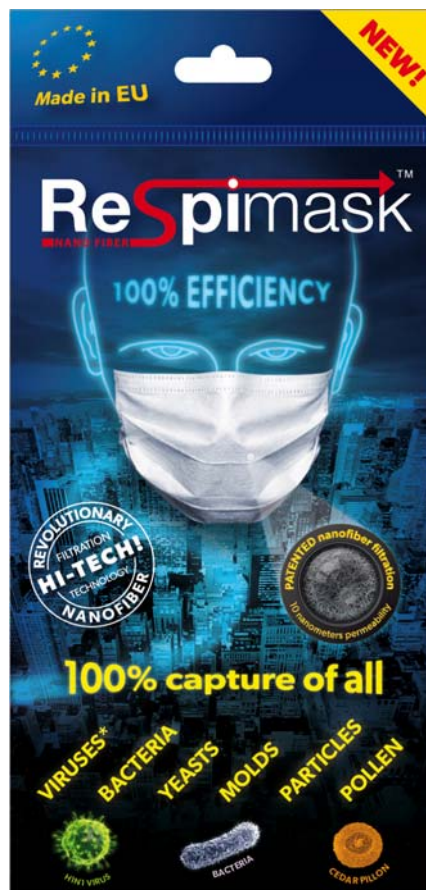
Title: ReSpimask

What we offer: The RespiMask® is a new modification of surgical masks, which differs from conventional face masks due to high density of the nanofiber filtration layer and specially developed adhesive stripe what leads to effectiveness of 100% airborne virus capture. Ordinary face masks and respirators do not have this feature. Surgical masks are primarily intended to protect the environment from the user. Although respirators have a strong filtering layer and a better seal with the skin but it is harder to breathe through them and they have no ability to capture particles smaller than 120 nanometers, which is for example the size of the bird flu virus H5N1. The RespiMask® is made from non-woven fabric with nanofibrous layer, and is further provided with a dermatologically tested adhesive tape. This ensures 100% capture of all types of viruses, their mutations, bacteria, yeasts, molds, all particulates from the air, pollen and other allergens. The market already knows face mask with the virus capture ability, but the capture effectives is given due to chemicals or silver nano particles, which is impregnated with and therefore the wearer might face to unwanted inhalation of these particles and chemicals. The filter efficiency of the RespiMask® is based only on pure mechanical filtration effect secured by the nanofiber fabric, known also as "dry filter" version, which is why there is no possibility of inhalation of

any part of the mask. The big advantage of the RespiMask® is an end user price which is far less than the competition declaring viral capture. The RespiMask® is made with regard to the protection of the environment, is patented and all of its components are each separately certified according to EU and FDA. The product has excellent air gradient and is intended for 24h use. In combination with the hygiene habits is the RespiMask® effective protection when traveling by public transport in the increased occurrence of different mutations of influenza in the form of epidemics or pandemics as well. The RespiMask® is also designed to protect the respiratory tract of allergic asthmatics during pollen seasons or increased content of other biological allergens in the air or smog and dust. The RespiMask® is suitable as a protective tool to perform different jobs. The main consequences for the employer are significant financial savings he will save on the costs associated with employee absenteeism due to illness.

Collaboration: Trade, market research

Looking for: We are looking for partners - distributors who can launch our products to the Japan and Asia market. We are ready to provide samples free of charge to all possible partners who will show us real interest in collaboration with a marketing plan how to launch the RespiMask® to the Japan /Asian market.





## Contipro Biotech Ltd.



### Contact details of the company

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### Specific information for the fair

First name: Zuzana  
Last name: Bubnova  
Booth number: 6S-26  
Year founded: 1997  
Sectors: regenerative medicine, tissue engineering, hyaluronan chemistry, drug delivery, electrospinning devices  
Activities: devices for nanofiber production, application oriented research in nanobiotechnology and biopolymers chemistry (mainly focused on hyaluronan)  
Company size: 102



### Technology Profile

Title: Contipro Biotech

What we offer: Contipro Biotech constructed and launched new laboratory device 4SPIN<sup>®</sup>, capable of forming nanofibers from most polymers including biopolymers with high viscosity such as hyaluronic acid. 4SPIN<sup>®</sup> is able to form random and ordered nanofiber layers with different degrees of alignment, even in sterile rooms. The device is highly modular, with central and intuitive control of all components and processes. Contipro has its own research laboratories with 90 researchers. We have a strong scientific background in the hyaluronan chemistry and in fiber spinning of biopolymers. We can offer hyaluronan specialities – chemically derived biopolymers usable for fiber spinning and also know-how in use of these substances in tissue engineering, wound healing, drug delivery or regenerative medicine.

Collaboration: technical support of clients, sales representatives, academia-industry partnership

Looking for: Contipro Biotech is looking for final customers and sales representatives.

## Advanced Materials-JTJ Ltd.



### Contact details of the company

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Booth number: 6S-26  
Year funded: 2012  
Activities: Applied nano-research, manufacturer of 2<sup>nd</sup> generation of photocatalytic products with maximal efficiency (10x-100x higher than conventional products)  
Company size: 5

### Technology Profile

#### What we offer:

The Advanced Materials-JTJ, Inc. was one of the first nano technology based businesses in the Czech Republic. It was founded in 2003 with the main focus on commercialization of photocatalysis, material chemistry and development of applications for new nano materials.

The Advanced Materials-JTJ, Inc is a parent company of a joint venture HE3DA, which develops an original lithium battery design based on 3 dimensional electrodes.

The Advanced Materials-JTJ, Inc has started applied research on photocatalysis in early 2003, when a process for manufacturing of photocatalytic ceramic tiles was delivered.

It continued with the development of an industrial process for manufacturing of photocatalytic multifunctional paints for air cleaning. Simultaneously the company has developed a large scale technology to make TiO<sub>2</sub> nanoparticles. Both processes are patented.

Advanced Materials-JTJ, Inc expands rapidly working with several universities and international companies on variety of R&D and commercial projects. Advanced Materials-JTJ, Inc is a holder of several patents, and pending patents in the field of material science, photocatalysis and energy accumulation.

Advanced Materials-JTJ has developed a patented photocatalytic air cleaning system FN<sup>®</sup> Coatings and distributes the photocatalytic products globally. FN<sup>®</sup> Coatings are already licensed and distributed in the Czech Republic, Slovakia, Poland, Spain, Portugal, Ireland, New Zealand,

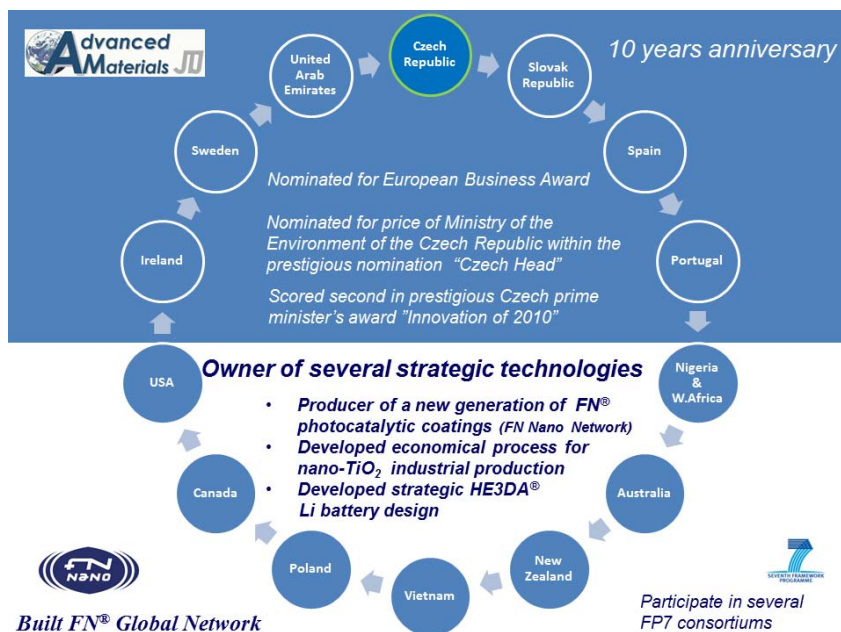
Australia, Canada, Sweden, Switzerland, China, Vietnam, USA, United Arab Emirates, Nigeria and West Africa. FN<sup>®</sup> photocatalytic products are produced and supplied from the Czech Republic and in the USA.

Industrial and exhaust exhalations, organic contaminants from plastics and many other substances around us are threat to human health and they lower the quality of our environment. According to the WHO, more than 15% of chronic diseases are caused by bad air quality. A high percentage of allergies, contagious infections, bad odors or darkening of facades are a few examples of the impacts of contaminated air. Man is forced to protect himself and one exciting possibility is the use of photocatalytic coatings FN<sup>®</sup>. The FN<sup>®</sup> suspensions represents an advanced air cleaning system indoor and a great facade or concrete protection outdoor. They are applied similar to regular paints. The FN<sup>®</sup> photocatalytic efficiency is 10x-100x higher than the one of silicate, silicone and sol-gel based the first generation photocatalytic products. FN<sup>®</sup> is suitable to for air depollution outdoor and for military decontamination applications.

Collaboration: Transfer of technologies, business and information support of clients, transfer of knowledge, project collaboration

1. Advanced Materials-JTJ, Inc is looking for distributors for FN<sup>®</sup> Photocatalytic Coatings and collaboration in development of environmental applications.

Looking for: The company is looking for partners and customers in Japan and Asia.



## NANOTRADE Ltd.



### Contact details of the company

Head of executive: CEO  
Firstname: Ladislav  
Name: Torcik  
URL: [www.nanotrade.cz](http://www.nanotrade.cz)  
Office Address: areal VUHZ, Dobra 240 CZ 739 51  
HQ Address: Mozartova 178/12, Olomouc  
Zip code: CZ 779 01  
Country: Czech Republic  
Tel: +420 728 401 019  
E-mail: [torcik@nanotrade.cz](mailto:torcik@nanotrade.cz)

### Specific information for the fair

Name of person: Ladislav Torcik  
Mobile phone: +420 728 401 019  
Booth number: 6S-26  
Activities: Applied R&D, Technology transfer, nanotechnology end products, manufacture and trading

### Technology Profile

#### What we offer

Our company closely collaborates with R&D institutions, provides testing and development of new materials, technologies and application processed at all levels. Moreover, the company provides tests and approvals in collaboration certification authorities. The company is also active in consultation, advisory and trading of nanotechnology products.

NanoTrade Ltd. has expertise and experience in following fields:

- **Additive materials for liquid and solid fuels** to improve burning process and decrease the consumption and emissions.
- **Surface treatment processes** for broad spectrum of materials. New features: oleophobicity, hydrophilicity, hydrophobicity, antibacterial, conductivity, resistancy to abrrasion etc.
- **Textile products:** with own registered brand nanosilver(r), functional clothes with antibacterial and healing effects, functional working clothes or sport. Development of new clothes Smart Textiles with sensors.
- **Medical healing products**, veterinary certified.

**Collaboration:** Research institutes and universities in United Kingdom, Germany, USA, Poland, Austria, Czech Republic.

The company is member of

- the Czech Nanotechnology Cluster
- the Czech Society for New Materials and Technology
- the Czech Association of Producers and Suppliers of Medical Devices

#### Looking for:

Collaboration in applied R&D and Technology,  
Distribution partner for retail of products,  
Partner for Technology transfer

## CzechInvest - Investment and Business Development Agency



### Contact details of the company

Firstname: Jan  
Name: Fusek  
URL: [www.czechinvest.org](http://www.czechinvest.org)  
Address: Stepanska 15, Prague  
Zip code: 120 00  
Country: Czech Republic  
Tel: +420 296 342 500  
E-mail: [fdi@czechinvest.org](mailto:fdi@czechinvest.org)

### Specific information for the fair

Mobile phone: +420 724 952 875  
Booth number: 6S-26  
Year funded: 2012  
Activities: Business development in the Czech Republic, comprehensive services for expanding companies, full information assistance, handling of investment incentives, business property identification, location of Czech suppliers, aftercare services  
Company size: 250

### Technology Profile

Title: CzechInvest  
What we offer: CzechInvest is the investment and business development agency of the Czech Republic whose services and development programmes contribute to attracting foreign investment and to developing Czech companies. Our mission is to support investment activities to the highest level of competence not only through our information service and consultancy but also by linkage with structural funds of the EU.

#### **CzechInvest provides the following services free-of-charge:**

- Comprehensive services for expanding companies - full information assistance, handling of investment incentives, business property identification, location of Czech suppliers, aftercare services
- Business infrastructure development
- Access to structural funds
- Sector database of suppliers

Collaboration: Assistance to the companies expanding their business activities on European and Czech market.

Looking for: Companies looking for business opportunities in Europe & Czech market, Universities looking for collaboration with European, Czech counterparts.



## About the Enterprise Europe Network

The Enterprise Europe Network is a key instrument in the EU's strategy to boost growth and jobs. Bringing together close to 600 business support organisations from more than 50 countries, we help small companies seize the unparalleled business opportunities in the EU Single Market.

Our member organisations include chambers of commerce and industry, technology centres, research institutes and development agencies. Most of them have been supporting local businesses for a long time. They know their clients' strengths and needs - and they know Europe.

As members of the Enterprise Europe Network they are linked up through powerful databases, sharing their knowledge and sourcing technologies and business partners across all Network countries. But they are also closely linked with the European Commission, which enables them to keep abreast of EU policies and to feed small companies' views on them back to Brussels.

### *Services tailored to small companies*

Supporting small business is a cornerstone of the EU's drive for growth and jobs. Because 99% of all EU companies are small and medium-sized enterprises (SMEs), accounting for 67% of jobs, what's good for SMEs is good for Europe's economy.

We are co-financed through the Competitiveness and Innovation Framework Programme (CIP, 2007-13), an EU funding programme designed to make European companies more competitive. Our services are tailored to SMEs but are also available to all other businesses, universities and research centres.

### *Strong foundations*

The Enterprise Europe Network was launched in February 2008 by the Commission's Directorate-General for Enterprise and Industry. It builds on the former Euro Info Centre (EIC) and Innovation Relay Centre (IRC) Networks, established in 1987 and 1995 respectively.

Offering the combined services of these highly successful predecessors, and more, we are a true one-stop shop for small businesses. More than 3 000 experienced staff provide you with practical answers to specific questions in your language.

The wide range of free services we offer covering following areas:

- Internationalization
- Technology transfer
- Access to finance
- Research funding
- Advice on EU law and standards
- Intellectual property and patents
- Speak up on EU law

For more information about the Enterprise Europe Network please access:

<http://portal.enterprise-europe-network.ec.europa.eu>