



Nano and micro
technologies

NEWSLETTER n° 10 May 2018

EDITORIAL

Because we are publicly funded, our services are free of charge. And as every year all sector groups in the Enterprise Europe Network are asked by our stakeholder EASME (Executive Agency for SME's) in Brussels to report our activities and results over the previous year. We focus our international partnersearch and matchmaking activities in 17 different sectors. Ranging from biochemtech to sustainable construction, from intelligent energy to healthcare and from agrofood to creative industries. My group focusses on the micro- and nanotechnologies sector, also referred to as the high tech industry in more popular terms. Together with 22 network colleagues from 15 different countries our group establishes collaborations between companies and our clients active in the field of micro- and nanotechnologies all over Europe and beyond.

In order to realize this, in 2017 our sector group organized 25 different matchmaking events were 3.158 one-on-one meetings were held between 1.504 participating companies. Besides that our group organized 5 company missions with in total 181 companies. We generated 46 publications to inform you, our clients, about upcoming events and activities. Almost 61.000 companies were informed by these publications leading to new business for our network. At the end, our group was able to successfully link 72 companies through 36 successful cooperation. That means every 10 days, we successfully link one company to another having a Partnership Agreement (PA). A PA is a signed Statement Letter in which both companies declare to be brought together by means of the Enterprise Europe Network. Successfully link not only means we were able to spot the right cooperation partner and introduce them to each other. We take our service a step further. We support both our clients in

the process towards collaboration. Only after having reached some kind of agreement or signed contract we can claim this as a result of our services.

Every 10 days! Not bad! If you want to know what we have in store for you, please contact your local network partner. You can find them here: Find a local Network contact point!

Rim H.M. Stroeks

Chairman

Point 1. Dual use technologies

In our last newsletter, we informed you that we signed a partnership with the European Defence Agency (EDA) to allow our clients to access the hard-to-reach CapTech groups. They gather Ministries of Defence, Primes and experts on 12 topics. Thanks to EEN SME's have the opportunity to pitch their civil technologies and to raise awareness for potential future defence developments.



Signo Motus an Italian SME located in Sicily and Tuscany, is working in the fields of robotics and niche products for the ICT and rehab markets. It is active in the field of electro-rheological fluids (ERF), a smart nanomaterial that can rapidly change from a liquid to solid state within milliseconds when an electric field applied. The technology has a range of potential Dual Use applications, from adaptive mechanical devices such as shock absorbers and brakes to fitness and real and rehabilitation devices robotics.

Signo Motus supported by Enterprise Europe Network, Micro & Nanotechnology Sector Group managers, has recently attended EDA CapTech Materials. The CapTech Materials & Structures main objective is to support the European armed forces on current and future challenges within these areas of research, in close collaboration with the other European Defence Agency (EDA), CapTechs and other international institutions and SMEs.

The company presentation was very much appreciated, especially by primes present in the audience: Thales and Airbus. The CapTech will likely to develop a relationship with the company and a possible project, of course, provided that the pMS (CNCs) in the CapTech.

TARGETED SUPPORT

'We had an extremely positive overall experience of the SME Instrument Programme,' says Scattareggia. 'I like that the Instrument is split into phases, with a feasibility study providing the company with the necessary knowledge to structure investments and assess the business potential. I would advise any SME thinking of applying to pay particular attention to preparing their proposal since it is an extremely competitive environment.'

The Enterprise Europe Network, whose services are available to all dual use SMEs, has also been a source of support. 'During Phase I the Network strongly supported us with the selection of a European coach. The coach spent three full days with us, guiding us in the preparation of our business plan. We are still in touch with our coach in order to find technical partnerships and investors.' The Enterprise Europe Network can also offer SMEs advice about regulations, commercialisation, marketing strategies and IPR protection.

'I would advise any SME thinking of applying to pay particular attention to preparing their proposal since it is an extremely competitive environment.'

Dr Sandro Scattareggia Marchese,
Managing Director,
Signo Motus



New Enterprise Europe Network developments

Since 2014 the Enterprise Europe Network offers services to enhance the innovation management capacities of SMEs, in order to translate innovation into economic impact. 'Lack of innovation management capacity is recognised as one of the leading barriers to creating impact,' says Dr Francesco Cappello, Enterprise Europe Network Manager for Consorzio Arca in Italy.

The Enterprise Europe Network also now provides Key Account Management (KAM) services to SME Instrument beneficiaries. 'In each region, a KAM can help identify specific challenges through a needs assessment. Based on this diagnosis, an SME can identify their coaching needs and select the most relevant coach.'

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A second company CeraCarbon from Netherlands helped by Rim Stroeks is going to pitch on 24 and 25 May 2018. The profile promoted in the Enterprise Europe Network for this Dutch company attracts a lot of interest, also from big companies like Lamborghini. Our network partner in Italy Giulia Basilici supported and accompanied the company in his meeting with Lamborghini.



If you think your technology could be "dual use", take this opportunity to develop a new market and contact your local EEN partner.

Point 2. Next meeting in Lund-Sweden, 15-17 May 2018

The European Spallation Source (ESS) is a European large-scale facility being built in Lund (Sweden). It will consist of a neutron source including a set of adjoining instruments and laboratories where neutrons are used to study all types of materials and gain knowledge about their structure and function. Neutron technology has a vast range of applications, from biotechnology to material science and from archeology to fundamental physics. This mission is specifically meant for companies active in the field of material science or who consider themselves high tech suppliers to the ESS ecosystem of institutes, laboratories or companies. More information can be found on : <https://watify-lund.b2match.io/>



Point 3. NANOTECH MISSION FOR CLUSTERS & SMEs

February 2018 mission - feedback

This winter, the EU-Japan organised the third edition of its Cluster/SME mission targeting Nanotech-related sectors. The event took place in Tokyo, from 14 to 16 February 2018, the EU delegation was composed of 19 participants, among 16 SMEs and 1 Cluster from 11 countries.



nano tech 2018
International Nanotechnology Exhibition & Conference

Among 19 participants, 11 were old or new clients of the Enterprise Europe Network.

The mission provided a good insight into the Japanese companies working in the field of nanotechnology and was organised on the fringe of the International Nanotechnology Exhibition and Conference, “nano tech 2018” (www.nanotechexpo.jp) which is the world’s largest nanotechnology fair and an essential event for state-of-the-art manufacturing. The 19 participants and the EU-Japan Centre team had the opportunity to meet each other during a pre-networking event on Tuesday 13 at the Dai-chi Hotel Annex. The purpose of this 3-day mission was to support and encourage participants in establishing a first contact with Japanese clusters, SMEs and laboratories in view of further collaboration and concrete business opportunities.

Nanotech 2019 is under preparation. It will take place from 29th of January to 1st of February. Find out more information :

<https://www.eu-japan.eu/events/nanotech-cluster-sme-mission>

Contact : J.Michelson@eu-japan.eu

Point 4. DIGITAL SURF exhibitor at Nanotech 2018

Digital Surf is the editor of Mountains® surface imaging & metrology software solutions offered by the majority of profiler and microscope manufacturers as an option or embedded in their equipment as standard.

As the Besançon-based company already boasts strong ties with several Japanese partners and wishes to continue development in this country, Digital Surf participated mid-February at the largest nanotechnology exhibition in the world, Nanotech, held in Tokyo.

On the EU-Japan Center for Industrial Cooperation stand, Arnaud Viot and Damien Lettori demonstrated Mountains® software features for micro- and nano-surface analysis in research and industry.



Point 4. PARTNERSHIP OPPORTUNITIES

New rotation stroke modul developed for ultra-fast and precise automation solutions and drive technologies applicable in automotive engineering, handling, packaging and robotics

A German SME has developed a new rotation stroke modul for ultra-fast and precise automation solutions and drive technologies applicable in automotive engineering, handling, packaging and robotics. The innovative free-rotating 3-axis portal systems enable ultra-fast pick&place applications in robotics and other automation solutions. Seeking industrial partners from engineering, automotive, handling, packaging, pharma, cosmetics and other sectors for commercial agreements with technical assistance. Partners for RTD projects are welcome as well.

Eike ROEMHILD e.roemhild@stift-thueringen.de

Looking for new materials or technologies in the nano- and micrometer scale to improve products

A Dutch multinational is a leading supplier of nano- and micro-particles designed to enhance their clients' product or process performance in a wide range of consumer products and industrial applications. The company is looking for new materials and/or technologies in the nano- and the micrometer scale that can make these products more sustainable, durable, lightweight and/or functional. Cooperation with partners would be in the frame of a research or a technical cooperation agreement.

Rim Stroeks rim.stroeks@kvk.nl

Looking for short lead time mechanical part manufacturer for high tech prototyping

A Dutch SME with mechanical and mechatronic engineering expertise, specialized in the development and realisation of high tech systems and instruments is looking for a manufacturer for the production of prototypes interested in a manufacturing agreement. A short lead time of maximum 3 weeks is crucial for future cooperation.

Rim Stroeks rim.stroeks@kvk.nl

Design and development expertise and manufacturing capabilities for application-specific micro and nano system technologies for prototypes and small batches

A German SME is specialised in the design and development of micro and nano devices based on micro-electro-mechanical systems (MEMs). The company offers its expertise, micro-module assembly facilities and lines to realize new devices. The availability of extensive in-house expertise, process capabilities, facilities and services in a compact one-stop-shop. Seeking services and manufacturing agreements for co-development and production of custom-specific micro and nano devices.

Eike ROEMHILD e.roemhild@stift-thueringen.de

Nanostructured titanium coating for orthopaedic implants

A group of CSIC and the GIBI group of Complutense University of Madrid have developed nanostructured coatings for orthopaedic implants. Due to the dimensions of the nanostructures,

osteoblasts adhere and proliferate whereas bacteria adhesion is seriously impeded. Partners interested in a patent licence are being sought.

Juan P. Duque duque@csic.es

TODE20150821001

New electro luminescent coating system for flexible substrates

A German SME offers a patented electro luminescent system that can be coated to flexible substrates (film, textile, paper). For this unique and environmentally friendly technology there are numerous potential applications in industry, ranging from textile to security and in decoration. They seek partners from industry and research to implement this technology or research cooperation agreement will be considered.

Benno Weißner bw@zenit.de

TOIT20170829002

Novel technology for the characterization of micro and nanoparticles in biological, industrial and environmental complex fluids

Italian company based in Milan developed a novel technology for the characterization of micro and nanoparticles for a cheaper, faster, more reliable and informative characterization in biological, industrial and environmental complex fluids. This will result in boosting R&D and QC (quality control) processes during lab scale or industrial production. The company is looking for technical partnerships for further improvement or commercial agreement with technical assistance.

Angela PULVIRENTI angela.pulvirenti@fast.mi.it

Point 5. Upcoming events

International Conference NANO-2018, Kyiv-Ukraine, 27-30 August

This International research and practice conference dedicated to "Nanotechnology and nanomaterials conference" will be located in the main building of Taras Shevchenko National University in Kyiv. A session will be dedicated to opportunities of the Enterprise Europe Network for scientists and researchers and an "innovation picnic" to show scientific and innovative developments.

Registration deadline – 15th of May, 2018;

Abstract submission deadline – 31st of May, 2018;

Link for registration - <http://nano-conference.iop.kiev.ua/registration.html>

Conference website - <http://nano-conference.iop.kiev.ua/en/>

Olena FESENKO: fesenko@iop.kiev.ua

Micro & Nano Event, Besançon-France, 27 and 28 September 2018



The Micro & Nano Event comes back to Micronora fair on 27 and 28 September in Besançon-France. For its 20th anniversary, the event has plenty of new additions to resonate with the exhibitors and encourage even more innovation.

The event this time is gathering the brokerage event and spotlight on young innovative companies to build long lasting partnerships. More information : www.micro-nano-event.eu

Anne-Marie VIEUX : am.vieux@bfc.fr

Nanotechnology and innovations in materials and applications, Dortmund-Germany, 21-22 November 2018

Open call for posters

The 8th NRW Nano Conference is open to contributions from the complete field of nanotechnology and innovations in materials and applications like ... Health & Medicine ... Electronics & Optoelectronics ... Energy Efficiency ... Characterization & Simulation ... Regulations, Safety & Societal Acceptance ...

The NRW Nano Conference is Germany's largest conference with international appeal in the field of nanotechnology. More than 700 experts from science, industry and politics meet for two days to promote research and applications of key enabling technologies.

Call for Posters / Deadline 1st July 2018

Scientists, especially Young Academics, get the opportunity to present their research ideas, projects and insights as a poster contribution. Young Academics are entitled to win the "Best Poster Award".

http://nanoconference.de/call_for_posters/

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