

# network

## enterprise europe

N° 21  
July / August 2015

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## Materials

### NEWSLETTER - SG Materials

#### Editorial

Dear reader,

we are happy to introduce a new member of the Sector Group Materials: The Podlaska Regional Development Foundation from Poland. You will find some information about them and their services in the article in the SG news section of this newsletter.

We also highly recommend you the article by CEN-CENELEC presenting a new e-learning tool to encourage SMEs to become involved in standardization.

Make sure to also take a closer look at the new cooperation offers and upcoming EEN events in this summer/fall, as there are plenty of interesting ones in this edition. The focus of the announced events is on nanotechnology and Horizon2020.

Enjoy reading!

Dr Andrew Hebb

Chair of the Sector Group Materials  
Enterprise Europe Network UK  
Greenwich Research & Enterprise

#### Sector Group Materials

Is a cornerstone in the Enterprise Europe Network enabling innovations and building bridges between material research & supply and the other sector groups. The Sector Group Materials connects research, technology and business partners active in the wide diversity of the materials sector.



SG Materials

# Recent Technology Offers and Requests / Project Partner Searches

The full version of offers and requests of the Enterprise Europe Network and a list of local EEN partners are available at <http://een.ec.europa.eu>. Please choose cooperation offers you are interested in and contact your local EEN partner to receive more information and contact data. We will help you to establish contact with potential cooperation partners.

## Industrial Manufacturing Processes

### **Project partner search: Die wear analysis of multidirectional forging tools (RDDE20150609001)**

A German research institute plans to submit a Horizon 2020 project proposal on the die wear of multidirectional forging tools. The institute wants to analyse the wear of the different tool elements in large batch trials. The tool material as well as the springs are subject to the analysis. Additionally material characterization of the parts subject to mechanical wear is part of the project. Project partners from research and industry with respective know-how are sought. The deadline for the Eols is 07.08.2015 and for the proposal submission under H2020-FTIPilot-2015-1 01.09.2015.

### **Offer: Efficient, cost effective and weld-free joining of complex aluminium parts (TOUK20150511002)**

A UK precision engineering SME expert in computer numerical control (CNC) engineering, fine limit sheet metal work and assembly and finishing has developed an aluminium salt bath dip brazing process which can be used to manufacture complex components with different wall thickness. The process offers a cost effective, lightweight, but equally strong alternative to welding, machining and casting. Manufacturers in the aerospace industry are sought to license the process.

### **Offer: Surface-treatment technology prolonging service life of steel elements (TOPL20150706002)**

A group of scientists from Polish technical universities have developed a machining method of abrasion resistant steel components that improves their properties. Thanks to the use of gas-nitriding and silicon-aluminum suspension elements exposed on abrasion, corrosion and high temperatures have longer service life. The researchers are looking for partners involved from the steel industry interested in buying a license.

### **Offer: Additive manufacturing of new materials with electron beam melting (EBM) (TODE20150521001)**

The Chair of Fluid Technology and Microfluidics of a German university is currently developing new metal materials using an electron beam melting system, an additive manufacturing technology by which it is possible to produce complex, three-dimensional metal parts of any composition. Partnership for further development in manufacturing new materials for various applications is sought. Either a technical cooperation agreement or a research cooperation agreement is possible.

### **Offer: High target utilisation sputtering system for high performance coatings (TOUK20150330001)**

A UK materials R&D focussed SME has patented a high target utilisation sputtering system capable of producing high performance thin film coatings which allows low temperature deposition onto plastics, high deposition rates, and low stress coatings for virtually flat thin films on plastics. Industry partners

working with flexible electronics, transparent conducting oxides, high rate dielectrics are sought to test the system against their own needs via licensing or joint venture agreements.

### **Offer: Novel process to obtain light and cheap aluminum forgings with improved performance against corrosion (TOES20150514002)**

A Spanish company has developed a process to obtain aluminum forgings that are lighter and cheaper than traditional copper alloys and have a improved performance against corrosion. They can be used in any environment, even those with high humidity conditions (bathrooms, nautical, exterior building materials, etc.). They seek partners to incorporate this process in their production and to market the resulting forgings.

## Automotive and Transport

### **Offer: Cooling of electric drive system components with deionised water (TODE20150518001)**

The invention of a German university concerns the application of the accruing product water of a fuel cell. The water shall thereby serve as refrigerant for at least one more electric component. In this way, the product water can be sensible used as cooling medium. The area of application concerns fuel cell technology in connection with the cooling of electric components. The university offers a license for commercial use, other commercial agreements are also possible.

### **Offer: New model of electric engine with high torque and an unusually wide range of a rotational speed (TOPL20150706001)**

Polish researchers have developed a new electric engine with higher torque and a very wide range of a rotational speed. The offered solution is applicable in the automotive industry but can also be used as a power generator with voltage regulation. They are looking for partners involved in industry who are able to conduct research to adapt the offered solution to their needs and then implement it, therefore license agreement is offered.

## Building and Construction

### **Offer: Integral alarm system for termite detection in wood constructions based (TOES20140801001)**

A Spanish technology center has developed a new sensor to detect wood biodegradation. It detects multifunctional degradation activity caused either by insects (especially termites) or by xylophage fungi. The sensor is very small and easy to install, due to its wireless connection. An integral alarm system to monitor the state of wood in buildings can be installed combining the sensors in a network. A commercial agreement with technical assistance is sought.

### **Offer: Flexible, concrete-impregnated fabric for construction projects (BOUK20150409002)**

The multi-award winning UK manufacturer of a patented range of concrete-composite construction materials seeks distributors in Poland, Turkey, Austria, Switzerland and Spain. This unique technology is based upon a fabric impregnated with concrete, which has several highly attractive advantages and is targeted at several major industries. This company is one of the UK's fastest growing manufacturing companies.

**Request: Bulgarian wholesaler of construction materials is looking for suppliers (BRBG20150423002)**

A Bulgarian company specialised in wholesale and retail of building and furniture materials is looking for innovative partners for long term cooperation. The company is offering distribution in Bulgaria.

**Recycling / Energy / Environment**

**Request: Innovative uses for plastic waste sought (TRUK20150716001)**

A Scottish social enterprise which currently handles and recycles a range of waste is seeking innovative ways of recycling plastic, particularly high density polyethylene (HDPE), polypropylene (PP) and polyethylene terephthalate (PET), to produce new products. They would like to collaborate with industry or academic partners who can introduce them to innovative processes through commercial agreements with technical co-operation or licence agreements.

**Offer: Technique to remove hazardous substances in waste packaging by supercritical carbon dioxide in the recycling process (TOES20141124002)**

A Spanish technology center is developing a new technique for eliminating hazardous substances from waste polyethylene (PE) packaging to be used for solvents or phytosanitary products. This technique uses a technology that applies supercritical carbon dioxide (sc-CO<sub>2</sub>) in the extrusion phase of the plastic recycling process. The center seeks partners to discuss further research ideas or to establish technical agreements to adapt and implement the technique sharing know-how.

**Chemistry / Pharmaceuticals / Medical Applications**

**Request: UK-based biotechnology SME with anti-microbial nanomaterial seeks partners for technology scale up (TRUK20150707001)**

A UK-based biotechnology SME has developed an antimicrobial nanomaterial aimed at the wound care market. Having completed proof of concept the company is developing the technology as a prototype and is looking for manufacturers and/or engineering companies to investigate scale-up production. The company is looking for a commercial or manufacturing agreement with technical assistance to scale up the technology. Joint ventures and technical cooperation agreements will also be considered.

**Offer: Methods of production of vascular prostheses (TODE20150617003)**

A German university provides a novel method for the production of complex bifurcated vascular prostheses of biological material. Hence, they are not recognized as a foreign body by the patient. The area of application is medical engineering, specifically in the area of biological vascular prostheses. The university offers a license for commercial use, yet other types cooperation are also possible.

**Offer: An innovative artificial material for hernia treatment is offered (TOPL20150630001)**

A group of scientists from north west Poland have developed a new substance for hernia treatment. The new method is cheaper than flat mesh repair and shortens treatment and recovery

time. The offered material changes its state from liquid to solid thanks to exposition on UV rays. It is also absorbed by tissues so it doesn't cause further complications. The researchers are looking for an investor who has knowledge about medical industry and who will finance further technology development.

**Textiles**

**Request: Method sought to increase the thermal conductivity of leather (TRAT20150612001)**

An international manufacturer of consumer comfort products (with a European headquarters in Austria) is looking for a technology that will increase the thermal conductivity of leather. The inherent insulation properties of leather limit potential new applications. Therefore a partner offering a technical solution which has already passed the proof of concept is sought. A wide variety of partnerships including joint development, technology licensing and purchasing agreements will be considered.

**Offer: Coating material obtained from dead butterfly wings (TOTR20150408001)**

A Turkish SME active in industrial design has developed a technique that enables the separation of the wing and skin tissue of dead butterflies in order to create a coating material that can be used in various industries such as textile, jewelry, footwear and decoration. The material provides a unique appearance to the product. The company is looking for industrial partners for licensing agreements.

**Offer: Dutch high-end design company for interior textiles and wallcovering is looking for agents in Italy and France (BONL20150529001)**

A Dutch company is specialized in the design of high-end interior textiles and wallcovering. The company has an extensive experience with the use of different functional and design enhancing coatings, print techniques and surface treatments of textiles and paper. The Dutch company is seeking contact with companies in Italy and France that are interested in a commercial agency agreement and have a good network in the sector of interior textile and wallpaper producing companies.

**Offer: Advanced textiles for the composite industry (TOES20140328002)**

A Spanish research center has developed deep knowledge and has set up technologies to manufacture advanced textiles for the composites industry. The final materials obtained have all of their properties improved such as the mechanical resistance, burning behavior, aesthetical features and sustainability. The center looks for partners to establish cooperation lines in research, projects, analysis and characterization services, for further developments and/or applications.

**Offer: Manufacture of self-supporting lower windings for sewing machines (TOCZ20150316003)**

A Czech university has developed new technology to manufacture self-supporting lower windings intended for lock-stitch sewing machines. The offered technology enables effective manufacturing of these windings and increases the quality and productivity of the sewing process in a significant manner. Researchers are looking for partners interested in production of the technology under a license agreement.



## Other

### **Offer: Hardening accelerator and slope stability technology sought (TRKR20150416001)**

A Korean SME working on ground improvement and restoration of ground settlement structures is looking for a technology regarding hardening accelerator and slope stability. Its developed technology is already on the market which is reinforcing and restoring flimsy ground or settlement structures using grout materials. The requested technology should be environmentally friendly and recyclable. A commercial agreement with technical assistance is sought.

### **Offer: Organic light-emitting devices for further development (TOIT20150204001)**

An Italian R&D institution has developed prototypes of organic light-emitting diodes (OLED) that can be personalized and further developed as commercial products. The laboratory is looking for industrial partners for a technical cooperation or commercial agreements with technical assistance.

### **Offer: Production partner for MOX-sensors sought for implementation of innovative formaldehyde detection layer (TODE20150304001)**

A German research group has developed a gas sensor technology applicable in MOX-sensors (metal oxide), which allows the analysis of formaldehyde in parts per billion (ppb) in the air. This cost-effective technology shows an exclusively high sensitivity and allows the online-detection of formaldehyde. Applicable for example in hospitals, luxury hotels and wellness centers where a high air quality is required. Industrial partners offering MOX-sensors are sought for license agreements.

### **Offer: Novel heat exchanger of high efficiency (TODE20150708002)**

A German engineer has developed a novel efficient heat exchanger. Given the same specific power and efficiency as conventional heat exchangers, the new exchanger has both a several times smaller volume and smaller mass. The SME seeks licensees (e.g. producers of heat exchangers) interested in introducing the new heat exchanger into the market.

## EU News

### **New eLearning tool to encourage SMEs to become involved in standardization**

SMEs make up more than 20 million enterprises in Europe and employ more than 80 million people. Despite this, SMEs and especially micro enterprises do not play a leading role in creating or using standards. However, standardization allows all companies, including SMEs, access to state-of-the-art technology and thereby strengthens their innovation capacity. It creates a level playing field for market access and the introduction of new products and services.

The European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (CENELEC), in close cooperation with Small Business Standards (SBS), have developed an eLearning tool that is intended to encourage SMEs to become more involved in standardization and have their say in creating the best possible business environment for their activities.

The eLearning tool consists of 6 modules each with a dedicated topic. Each module begins with a review of the learning targets, followed by an animation that explains the subject based on a concrete situation. Following the animation, you can read more about the subject and finally test your knowledge. If you so wish, you can print a Certificate of Achievement. The eLearning tool is available in 23 languages from the CEN-CENELEC website at [www.cencenelec.eu/sme/eLearning](http://www.cencenelec.eu/sme/eLearning). Just select a language and read more about: What are standards and what do they mean for your company? By whom and how are standards developed? Why should you use standards? How do you find a specific standard and how could it be applied?

An extra module provides case studies about the benefits of participation in standardization and the use of standards. You can get direct, local support about standards from the network of national CEN and CENELEC member organizations. All national standardization organizations, members of CEN and CENELEC, have set up national SME Helpdesks. Similar support is provided by each of the Helpdesks, however national standardization organizations can provide this support in your national language and in line with the national situation.

Source: CEN-CENELEC / [www.cencenelec.eu](http://www.cencenelec.eu)

## Upcoming events

Events of the Sector Group Materials in the Enterprise Europe Network are open to interested enterprises or research organisation and are usually free of charge. You will be supported before the event to disseminate information about your organisation and know-how in advance of the event (by including it in online-catalogues, brochures etc) and you will receive information about other participants (of our brokerage events at international fairs) or visited organisations (at our company missions) in order to preschedule meetings and contacts of your choice. Even after the event we help you to stay in contact with the other organisation and we provide you with further information, e.g. funding opportunities for joint projects.

### **Brokerage Event for furniture sector, September 10th 2015 in Ostroda, Poland**

We are pleased to invite you to take part in the brokerage event for furniture sector. The event is organised on September 10th 2015 by Enterprise Europe Network during the 42nd International Furniture Fairs (MTM) Ostroda 2015. The main organiser is the Enterprise Europe Network partner: Centre for Innovation and Technology Transfer of University of Warmia and Mazury in Olsztyn. The brokerage event as well as the International Furniture Fair MTM Ostróda are focused on furniture products, IT support, renewable energy for production processes, materials and design.

The brokerage event is dedicated to entrepreneurs, technology producers and designers interested in international business and technological cooperation. It will be 3rd edition of the brokerage event during MTM Ostroda. It is fast and direct way to establish new cooperations, share information about innovative technologies, new trends, to initiate international cooperation and to find new business partners. The participants can choose the potential partners for face-to-face meeting according to their co-operation interests before the event. Thus they can make better of their time at the MTM Fairs.

Participation is free of charge. Registration: <https://b2bharmo.com/ostroda2015>. For more information please contact Agnieszka Domańska (+48 89 524 52 40; [agnieszka.domanska@uwm.edu.pl](mailto:agnieszka.domanska@uwm.edu.pl)).

### **3rd Cluster-to-Cluster Conference and Matchmaking, September 17th-18th 2015 in Copenhagen, Denmark**

The cluster-to-cluster conference and matchmaking is dedicated to matching clusters (and SME networks) with each other. 300 participants representing 150 clusters from 24 countries, and 433 cluster-to-cluster meetings, made the 2nd BSR STARS Cluster-to-Cluster Conference and Matchmaking to Europe's largest cluster matchmaking event in 2014. BSR Stars' annual meeting point for key cluster staff returns again this year on September 17-18 in Copenhagen. More than 90 clusters from 20 countries have already signed up for this year's event.

This year, the theme of the event is Innovation by Combination, because we believe that innovation occurs by combining forces, across clusters, across borders and across sectors. Therefore this year's event features an increased focus on cross cluster collaboration. But Innovation as Combination costs. So this two-day event will also give insight into funding schemes dedicated to clusters (such as BSR Innovation Express, Interreg and H2020) and a unique opportunity to establish international collaboration with other clusters.

Participation is free of charge. Registration at [www.b2match.eu/cluster-to-cluster-2015](http://www.b2match.eu/cluster-to-cluster-2015). For more information contact Kaspar Nielsen (+45 50 94 93 33; [kan@clusterexcellencedenmark.dk](mailto:kan@clusterexcellencedenmark.dk)).

### **Meet & Match Event Kunststoffenbeurs, September 23th-24th 2015 in Veldhoven, Netherlands**

Enterprise Europe Network is delighted to invite you to the first Meet & Match Event Kunststoffenbeurs 2015 on September 23rd and 24th during the 17th edition of the Kunststoffenbeurs (Plastic Fair 2015). The matchmaking event is organized by EEN. The main-organizer is the Chamber of Commerce / Kamer van Koophandel, co-organisers are Zenit and IWT.

The Meet & Match event Kunststoffenbeurs 2015 is an international matchmaking event focused on strengthening ties in European value chain of plastic processing and related researchers, business partners, suppliers and intermediaries. Enterprise Europe Network wants to organize the matchmaking sessions to facilitate networking and to bring together international potential project and business partners.

The 17th edition of the plastic fair takes place on the same days as the matchmaking and brings together over 3500 professionals and visitors interested in the new developments related to plastic processing. The Kunststoffenbeurs 2015 with its fair, conference and bilateral meetings make it the ideal venue for tailored networking to develop new projects and new business. The Kunststoffenbeurs keeps growing each year. This year there are more than 275 exhibitors covering the whole plastics production sector and over 40 inspiring lectures.

In this mass of potential contacts during the Kunststoffenbeurs, our meet & match sessions will allow participants to get together with project and business partners in pre-scheduled meetings and look for cooperation, joint development, manufacturing and agency agreements. The fair, conference and matchmaking are interesting for all companies out of the value chain of polymer processing. Target participants are: (original equipment) manufacturers, (device) developers, researchers, engineers, component suppliers, system suppliers, maintenance and service providers, agents, distributors, consultants and others.

Registration at [www.b2match.eu/kunststoffen2015](http://www.b2match.eu/kunststoffen2015). For more information please contact René de Groot (+31 622 489 038, [rene.de.groot@kvk.nl](mailto:rene.de.groot@kvk.nl)).

### **ICT, bio technology and nano technology B2B Event, October 15th 2015 in Ostrava, Czech Republic**

This international brokerage event, which will take place on 15th of October 2015 in Ostrava, is especially designed to reach entrepreneurs and researchers, who are looking for new cooperation partners particularly in sectors ICT, biotechnology as well as nanotechnology. Each participant can arrange up to 15 face-to-face meetings. The accompanying programme consists of:

- › Guided tours to research centres (IT4Innovations National Supercomputing Centre, Nanotechnology Centre and Biotechnology park 4MEDi - Corporate Biotech Park for Medical Innovations Ostrava")
- › Workshop "How to get EU funding for international projects"
- › Practical tips on how to prepare and manage a project in HORIZON 2020

Participation is free of charge. Programm and registration are available at <https://b2bharmo.com/ICT2015>. For more information please contact Eva Simeckova (+420 597 479 335; [e.simeckova@khkmsk.cz](mailto:e.simeckova@khkmsk.cz)).

### **NMP Istanbul Brokerage Event, October 22th 2015 at the Sabanci University in Istanbul, Turkey**

The brokerage event invites participants from large and small industrial companies, research organisations, universities, and other organisations interested in sharing new project ideas and finding collaboration within the upcoming calls in Horizon 2020 NMPB 2016-17. The Brokerage event mainly focuses on calls for nano technologies, advanced materials and production as well as on calls for factories of the future. The event is being organised by the Sabancı University and Enterprise Europe Network Istanbul.

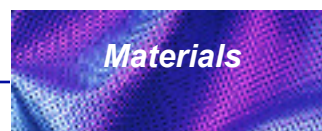
With the grant received from TUBITAK, we would be able to cover the flight costs (i.e. flight tickets will be purchased by our university) of the selected participants coming from universities and research institutes. Detailed information for the b2b event in Istanbul is available in the website [www.b2match.eu/nmpist2015](http://www.b2match.eu/nmpist2015). For further questions regarding the event please contact Can Kartoğlu (+90 (216) 483 97 13, [ckartoglu@sabanciuniv.edu](mailto:ckartoglu@sabanciuniv.edu)).

### **Nanotech Italy Brokerage Event, November 26th 2015 in Bologna, Italy**

The Nanotech Italy Brokerage Event 2015 will take place during the Nanotech Italy Conference (November 25th to 27th 2015): experts from industry, government and academic laboratories worldwide will meet during the three days event to showcase nanotechnologies and key enabling technologies related innovations and spotlight applications oriented to fields crucial for economical growth and wellbeing.

Nanotech Italy offers the possibility to connect with specialized professionals, learn on research & innovation, KETs for the Made in Italy, build partnerships, discover our exhibition area and promote your products and services thanks to the business matching.

Participation is free of charge. Registration is open until 5th of November at [www.b2match.eu/nanotechitaly2015](http://www.b2match.eu/nanotechitaly2015). For more information please contact Luisa Secci (+39 051 6398099; [luisa.secci@aster.it](mailto:luisa.secci@aster.it)).



# News from the Sector Group

## New Member: Podlaska Regional Development Foundation



**PODLASKA FUNDACJA  
ROZWOJU REGIONALNEGO**

Podlaska Regional Development Foundation (PRDF) is a non-government organisation that supports regional economic development in Eastern region of Poland (Podlaskie Region) through conducting activities promoting entrepreneurship. PRDF closely cooperates not only with government and local-government authorities and key-players but also with national and international institutions of comparable character.

As a regional development institution Podlaska Regional Development Foundation, one of the main actors in the region, actively participates in various international initiatives; for example, good practices exchange, close cooperation with the comparable character institutions worldwide, and conducting different projects that are gateway to competitiveness and innovation. For instance, PRDF is engaged in Enterprise Europe Network as a regional partner by providing information and advice to EU companies on EU matters and searching for business and technology partners.

The services are specifically designed for small and medium enterprises (SMEs) but are also available to all businesses, research centres and Universities across Europe. Furthermore, PRDF works together with other international institutions creating a wide range of ideas that can be implemented in Podlasie region, and as a result could increase the innovation level in the region. This creates an opportunity for joining results of conducted actions with practical approach and everyday work with enterprises. As a result, the regional companies benefit from wider offers of services that are offered to them.

### Services and products

Podlaska Regional Development Foundation is involved in a number of activities with the aim to bridge the gaps in the present infrastructure of business support. These include the following initiatives:

- › Creating of a network of business incubators.
- › Supporting a network of institutions involved in business advisory services.
- › Co-operating with local authorities and the regional representations of the central government with regard to the construction and execution of the regional development strategy.
- › Free of charge training and counseling services responding to the needs posed by economic transformation of the region.
- › Supporting marketing initiatives, organising active forms of promoting the economy and private business.
- › Supporting the development of small and medium size enterprises.
- › Co-operating with foreign entities with the aim of executing statutory objectives.
- › Ensuring access to information about the European Union.

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The newsletter is published by Leibniz University Hannover on behalf of the Sector Group Materials of the Enterprise Europe Network. The Enterprise Europe Network is funded by the European Commission. Neither the European Commission nor the EACI, nor the publisher, nor any other person acting on their behalf may be held responsible for the use to which information in this newsletter may be put, or for any errors which, despite careful preparation and checking, may appear. We cannot assume any liability for the up-to-dateness, completeness or accuracy of any of the contents. The views in this publication are those of the authors and do not necessarily reflect the view of the publisher or the policies of the European Commission.

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