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Materials

NEWSLETTER - SG Materials

Editorial

Dear reader,

as with the previous edition of our newsletter we are yet again very glad to introduce a new member to the Sector Group Materials: The Regional Chamber of Commerce and Industry Nord de France. You will find some information about them and their services in the article in the SG news section of this newsletter.

If you have an interest in smart textiles, be sure to read the summary of a successful company mission to Flanders (Belgium) organized by the EEN partners in Flanders and Thuringen, both members of the SG Materials.

And lastly, we recommend you going through the upcoming events, as they cover a great variety of technology sectors; reaching from energy and hygiene to chemistry and steel.

Enjoy reading!

Joanna Einbock

Editor

Enterprise Europe Network Niedersachsen

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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

Request: Sealing compound required to protect electronics (TRAT20150623001)

An Austrian SME is looking for a compound to protect electronic parts from extreme conditions like heat, water and temperature shocks. The company offers sensors and transponders to clients in the industrial sector and needs a robust casting and/or molding compound to seal sensitive electronics. Potential partners should develop and provide the requested material in the form of a technical cooperation, license agreement or a commercial agreement with technical assistance.

Request: Looking for manufacturer for die casting gates from steel (TRIS20150212001)

An Icelandic SME is developing high-pressure, high-temperature valves for geothermal wells. The project involves creating a mould and die-cast a two-part gate from steel. The SME is looking for an industrial partner, who has extensive experience with steel casting and technical capability. Potential cooperation is envisaged under commercial agreement with technical assistance and manufacturing agreement.

Request: Manufacturer for coating of plastic foils with UV cured lacquer sought (TRDE20150908001)

A German SME active in the field of nano technology has produced some prototypes of plated foils with UV cured lacquer. They look for industrial partner from the field of coil coating for manufacturing agreement. The foil has to be pretreated, coated on one side with lacquer, wet layer thickness about 30µm. Drying and hardening is requested with ultraviolet light, absorbed dose 1-6J/cm². Furthermore the partner must be able to handle lacquer with high volatile solvents.

Request: Electrolytic polishing automation technology for forming patterns on stainless steel sheet sought (TRKR20150428001)

A Korean SME is looking for a technology to automate the electrolytic polishing, which can satisfy needs of the material and component industry and apply the technology into the exterior or interior applications for home appliances, elevators or buildings. The potential partner should be specialized in surface treatment engineering. The company seeks to find a company for technical cooperation, manufacturing agreement and commercial agreement with technical assistance.

Offer: Process and device for compound extrusions (TODE20150730002)

A German university provides an innovative procedure as well as a device for the production of compound profiles consisting of non-ferrous metal and additional material combinations (for example, aluminium-magnesium-foam for vehicle construction) by using extrusion presses in the area of light construction. The university is offering a license agreement.

Offer: Diamond thin-film coatings for extreme applications (TODE20150811001)

A German research institute with a vast know-how on solutions in surface engineering and thin films has developed a diamond thin-film coating to protect parts of various sizes and geometries in extreme environments that are characterized by abrasive wear, chemical wear and/or have additional need for low-friction and/or dry-running capability. Industrial partners for license or technical cooperation agreements and research partners for joint research and further development are sought.

Offer: Advanced 3D industrial inspection system (TOES20150417001)

A Spanish ICT research center offers an inspection system that applies machine vision to quality control. It is an industrial solution, that is easy to integrate in production processes, capturing images of an object while it is in free fall. The whole volume of the object is reconstructed in 3D in real time. Any deviation is efficiently detected. The research center is looking for partners to establish a license agreement, a manufacturing agreement or a service agreement.

Automotive and Transport

Offer: Cooling of electric drive system components (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 a refrigerant for at least one more electric component. That way, the product water can be 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.

Furniture / Building and Construction

Request: Materials replacing the fibreboard (TRPL20150521002)

A Polish SME active in the production and distribution of school and office products in Poland and in other European countries. The company is looking for materials which can replace the fibreboard. The materials will be used in tables covered with cork or with metal tape. The material should meet the technical parameters of the fibreboard. It should be soft (so that one can push in pins using the power of the human hand), sufficiently stable (when one pick up the horizontal the plate should not fall apart), even (the surface must be flat, without cavities and inequality) and light (no heavier than fibreboard). The company offers a cooperation based on a license agreement and technical cooperation agreement. Other types of partnerships are also taken into account.

Request: Materials replacing aluminium and wooden frames (TRPL20150521003)

A Polish SME, specialized in school and office products and supplies, is looking for materials which can replace aluminium and wooden frames in tables. The material should meet the technical parameters of the frames. A cooperation based on a license agreement and technical cooperation agreement is sought.

Request: Alternative ways of joining wood-based surfaces with the other surfaces (TRPL20150521004)

A Polish SME, specialized in school and office products, is looking for alternative ways of joining wood-based surfaces with wood-based surfaces and the other surfaces. The new way should allow maintaining an appropriate technical parameters. A cooperation based on a license agreement and technical cooperation agreement is offered.

Chemistry / Pharmaceuticals / Medical Applications

Request: Fused salt liquid heat transfer fluids (TRIL20150719002)

An Israeli company and global manufacturer of chemical products seeks molten salt liquid heat transfer fluids, or mixtures thereof, comprising primarily of the following ions: K⁺, Mg⁺⁺, Na⁺, Ca⁺⁺, PO₄(-3), Br(-1) and Cl(-1). Identified technologies that meet the company's basic criteria will receive funding to mature the technology if required, or be considered for licensing. Financial, Joint venture agreement and/or license agreement are sought.

Request: Renewable alternative for a solvents mixture applied for the wash-out of polymer plates in the flexo-printing industry (TRNL20150818002)

A Dutch company is looking for research institutions or industrial partners to develop a renewable alternative for a solvents mixture applied for the wash-out of polymer plates in the flexo-printing industry. The SME is trading in a wash-out product designed for polymer plates to be processed after exposure, in combination with a recycling unit based on vacuum distillation. The company is interested in a research cooperation agreement and a commercial agreement with technical assistance.

Request: Looking for expansible material for veterinary application (TRFR20150522001)

A French company, specialized in biotechnology and veterinary products, is looking for a natural or synthetic material that becomes expansible with humidity. The French company seeks partner able to provide such material to co-develop a new product for animal reproduction. A technical cooperation or a commercial agreement with technical assistance is sought.

Offer: Skin disinfection set (TODE20150826001)

Skin disinfection procedures in hospitals are still lacking a standardized handling. A medical department at a German university developed an easy-to-handle and standardized skin disinfection set, using a two chamber system. A pre-defined volume of disinfection fluid is introduced in the second chamber with foam swabs upon pressure. By releasing the pressure uniformly soaked foam swabs are created, this avoids dripping of disinfectant. A license agreement is offered.

Recycling / Energy / Environment

Request: Waste glass fiber recycling and repurposing for new product development (TRFR20150806001)

A French company is expert in recycling engineering processes and circular economy approaches. They are looking for partners interested in recovering glass fiber waste (waste from industrial process, not from composite recycling) with the aim of repurposing these fibers for new product development.

The company seeks technical cooperation or commercial agreement with technical assistance with companies located in countries close to the French border.

Request: Innovative uses for plastic waste (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: Technology for making cellulose sludge ideal for bio-gas feeding (TOTR20150901001)

A Turkish SME active in industrial bio-technologies has developed an enzyme which makes cellulose sludge, waste of cellulose production, pumpable for using in bio-gas production and makes bio-gas production faster and more efficient. The enzyme shortens cellulose chains and transforms them into biomass with bacterial digestion. The process makes the sludge ideal for the digestion of methanogenic bacteria. The company is open for joint venture agreements as well as investments.

Offer: Maritime engineering in the largest wave flume of the world (TODE20150724001)

A German institute with vast know-how in coastal and maritime engineering has one of the largest laboratory facilities worldwide, the large wave flume. The computer-controlled, hydraulically driven wave maker allows the accurate simulation of natural waves, storm surges, tsunamis and rogue waves under laboratory conditions. The institute is looking for partners from maritime industry interested in cooperative research and development agreements, in-house research and technical cooperation.

Textiles

Request: Hydrophobic coating onto a natural and compostable fabric, without effects on compostability (TRCH20150817001)

A Swiss company has launched its first compostable clothing line. In order to achieve compostability for a piece of clothing, the guidelines for design and production are very strict. As a consequence of this the product development and production process leaves little to no alternatives for features like water repellency. The company is looking for partners who have the know-how for this kind of coating respecting their criteria. Commercial, technical or research agreements are sought.

Other

Offer: Novel printing cylinder (TODE20150803001)

A German university has developed a novel method to reduce the vibration of printing cylinders drastically. Printing cylinders used in conventional printing processes (like offset) are prone to bending vibrations, which can lead to a significant decrease of the printing quality over time. The new method solves this problem by redesigning the internal construction of the printing cylinders. A licensing agreement as well as a technical cooperation agreement is sought.

Offer: Optimized production planning tool (TOES20150417002)

A Spanish ICT research center offers a new cutting edge optimization tool for sales forecasting, production planning and procurement. The tool integrates a fast and powerful statistical analysis of the sale record of each product of the company with business information and the status of the supply chain in order to provide an optimized production and procurement plan. Partners interested in licence agreements or services agreements are sought.

Offer: Mobile cloud-based solution for outdoor employees increasing their productivity and safety (TOCZ20141210001)

A Czech company developed a solution for tablets intended for optimization and automation of outdoor service workers' activities and for secure data transmission/communication with dispatcher in real-time. The solution increases productivity and safety significantly. The solution is usable by e.g. energy, construction, mining, logistics or insurance sectors. The company is looking for new customers for technology implementation.

Offer: Virtual fence - protection system for operators of hazardous machines (BOCZ20150518001)

A Czech company developed wireless safeguard system for monitoring of entrance to the defined zone surrounding machine – kind of “virtual fence”. The system is very precise and reliable. Its implementation is needed to be in compliance with relevant mandatory EU directive and to follow European technical norm. The company offers its implementation to industrial companies producing hazardous machines and companies using those machines. A commercial agreement is sought.

Offer: Didactic kit for demonstrations of luminescence phenomena at schools and at science learning centers (BOCZ20150605001)

A Czech SME has developed didactic kits for education of luminescence principles and science popularisation. With the help of these kits, teachers are able to demonstrate highly visually appealing phenomena like fluorescence and chemiluminescence. These phenomena can be effectively utilized explain basic principles in physics and chemistry. The SME is looking for users (museums, schools, science learning centres etc.), commercial agents and distributors.

Offer: Digital resistive area sensing technology for large, flexible, multi-contact, force sensing touchscreens (TOUK20150511001)

A South East UK SME has developed a revolutionary, patent-pending sensing technology that allows the creation of large, flexible, multi-contact, force sensing touchscreens and surfaces. The technology can be integrated with flexible electronic displays to enable the next generation of fully interactive flexible display devices. Companies developing products that require touch / contact sensing are sought to try the technology or for licensing agreements.

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.

MEET2MATCH, Brokerage Event for the environment, energy, wood and food sector, 7 - 8 October 2015, Győr (Hungary)

This brokerage event offers a great opportunity for companies working in the energy, environment, wood or food sector to find new business partners, explore new market potentials and increase competitiveness and visibility on international markets. The Meet2Match event is organised by the Chamber of Commerce and Industry for Győr-Moson-Sopron County, together with the University of West-Hungary. Besides participants from the industry, academic institutes and for-profit research centres are welcome to facilitate business, research&development cooperation and technology-transfer on international level.

The participation at Meet2Match Conference and Brokerage Event is free of charge but requires prior registration. You can register at the official website of the event at: www.b2match.eu/meet2match2015/registration. For further information please visit the website of the event (www.b2match.eu/meet2match2015) or contact Mónika Wolf-Győri (+ 36 96 520 290; wgymonika@gymyskik.hu).

SPACE week in Rome - brokerage event, 21 - 23 October 2015, Rome (Italy)

APRE, within the framework of the European SME Week 2015, is organizing the “SPACE week in Rome - 2015”. The event will include a matchmaking event session co-organized by the EEN regional network of Lazio region, by the Space and Aeronautics sector group of EEN and others EEN nodes with a strong interest in the SPACE related issues.

The 3 days-event will be hosted by the Italian Space Agency from the 21st to the 23rd October 2015.

Event activities

- 21st of October: site visit;
- 22nd of October: International cooperation workshop, brokerage event;
- 23rd of October -International info day

The international event will provide anticipations on the calls for proposals under the Space theme in Horizon 2020 as well as useful information on the Copernicus programme and the GALILEO programme.

The event will be addressed to universities, research centres, industry, SMEs and SMEs associations, local administrations, providing new opportunities and competitive advantages for the participants offering strategic networking opportunities.

For more information and registration please visit <https://www.b2match.eu/spaceweek-italy> or contact Elena Giglio (+ 39 06 48939993; giglio@apre.it)

HYGIENALIA-PULIRE 2015 Brokerage Event, 27 - 28 October 2015, Madrid (Spain)

Hygienalia-Pulire is Spain's leading industrial cleaning and professional hygiene trade show. Participants will have the opportunity to share innovative technologies, production processes and commercialization targets in order to find new international business contacts and partners.

This event is targeted at all sectors that benefit from professional hygiene and cleaning. Hotel chains, gyms, health centres, hospitals, restaurants, geriatric hospitals, laundries, all they have a common need of providing excellent service to their clients. Participants include major companies that are active in the more specialised areas of the sector, such as machinery, tools and chemical products. Exhibiting firms also represent more cross-cutting interests, which also form part of the value chain of the cleaning industry: pest control, the natural environment, service providers, car washes, uniforms, etc.

The matchmaking event will also host a "Clusters' Conference", a networking space in which experts and representatives of clusters, professional associations, R&D institutions, and similar organizations will exchange ideas, information and objectives. The aim is to strengthen ties and help their respective SMEs to reach international business agreements.

For more information and registration please visit www.b2match.eu/hygienalia-pulire2015 or contact Enrique del Castillo (+34 961209594; delcastillo_enr@gva.es).

INDUSTRIAL BRIDGE, Brokerage Event, 19 November 2015, Szczecin (Poland)

The International Industrial Bridge 2015 Brokerage Event connects Polish and foreign companies and researchers from industry, especially from the metal/steel, chemistry & maritime sectors. By participating in B2B Networking you will get access to new business channels and you will be able to select meetings in advance by creating an online profile and get the partner you are looking for! The B2B Networking provides companies, clusters and researchers the right contacts to seize the opportunities and build collaboration across the borders. You can identify innovative technologies and find new solutions for existing problems. For registration and more information please visit www.b2match.eu/industrialbridge or contact Tomasz Łyżwiński (+48 91 449 4391; tylzwinski@zut.edu.pl).

MANUFACTURE 2015: EU Brokerage Event on manufacturing and production technologies, 23 -24 November 2015, Luxembourg

Manufuture 2015 aims to attract around 800 participants. Join a community of business leaders, researchers, innovators, policy makers, representatives of key technology platforms and numerous European Commission representatives. Listen to over 50 international speakers and give your input to the debate about the future of European industry. The B2B Networking provides companies, corporations, researchers and investors the right contacts to seize the opportunities and build collaboration across the borders. By participating B2B Networking you will get access to extensive technology expertise and new business channels and select your face-to-face meetings in advance by creating an online profile. For registration and further information please visit www.b2match.eu/manufuture2015 or contact Arnaud Duban (+352 621 348 063; arnaud.duban@luxinnovation.lu).

Save the date: CERÁMICA INNOVA - 5th Technology-Business Networking Event, 1 - 5 February 2016, Valencia (Spain)

CERÁMICA INNOVA is an international networking event aimed to connect companies and organizations from the HABITAT, CONSTRUCTION, ARCHITECTURE AND CERAMICS SECTORS, fostering meetings among them to share innovative technological proposals and to discover solutions for new challenges.

ACTIVITIES C15:

- FROM RESEARCH TO MARKET: PROJECT RESULTS & TECHNOLOGY OFFERS: Presentation of results obtained from European projects ready to be transferred to the market;
- FROM MARKET TO INDUSTRY: PRODUCTS & INNOVATIONS DEMO: Presentation of innovative products, services and technologies in the market ready to be applied in the industries;
- INNOVATIONS EXHIBITION & NETWORKING: Exhibition of technological innovations and opportunities to collaborate with partners worldwide;
- B2B MATCHMAKING EVENT: Bilateral meetings organized according to the previously specified interests of each participant. The participation in the event and the entrance to the fair are free.

For more information and registration please contact Elena Cortés at elena.cortes@redit.es.

EU News

China IPR SME Helpdesk: Guide to IPR protection in China for mechanical engineering

The China IPR SME Helpdesk providing free, business-focused advice relating to China IPR to European Small and Medium Enterprises (SMEs) has published the Guide to Effective Protection of IPR for the Mechanical Engineering Sector.

The mechanical engineering sector presents some unique challenges when it comes to IPR protection in China, and requires a proactive approach and a continuing IPR strategy well after registration has taken place.

Along with the usual issues of brand infringement, unauthorised use of trademarks and counterfeiting of copyrighted promotional material, manufacturers also have to consider the infringement of their patents, whether this be an entire machine or individual parts or mechanisms. Counterfeiting of components and whole pieces of machinery has been a common complaint of companies operating in this sector in China, and is made possible due to the presence of a skilled, experienced workforce and the use of reverse engineering. This guide addresses these IP issues and provides EU SMEs with advice on how to avoid, identify or enforce rights against potential infringement.

The guide can be found at www.china-iprhelpdesk.eu/sites/all/docs/publications/China_IPR_SME_Helpdesk_Guide_to_IPR_Protection_in_China_for_Mechanical_Engineering.pdf.

Source: China IPR SME Helpdesk, www.china-iprhelpdesk.eu.

News from the Sector Group

New Member: Regional Chamber of Commerce and Industry Nord de France

The Regional Chamber of Commerce and Industry Nord de France is a public organization dedicated to companies of French administrative region Nord Pas-de-Calais. This regional chamber coordinates 4 local chambers distributed on the territory. These chambers are led by CEO of companies who are elected to represent all the companies. Within its international department, the regional chamber hosts the Enterprise Europe Network Nord de France.

The Regional Chamber of Commerce and Industry Nord de France is mainly providing its services to small and medium enterprises (SMEs) but all services are also available to all businesses, especially R&D institutions, universities and laboratories which are our main innovation actors. The Chamber has been working with the actors active in the material sector, accompanying them in their international or technological development. EEN Nord de France, in particular, is collaborating with clusters such as CluBtex, UP-Tex (technical textiles), Matikem (Sustainable material and green chemistry, Mecanov' (Mechanical industry), CD2E/TEAM² (Eco Materials and recycling). The team is participating in events (presentation of the EEN services), as well as thematic workshops (VAT, intellectual property, business and technological partnerships, etc.) and accompanying businesses in identifying partners abroad. EEN Nord de France is also co-organiser of B2B events (crosstexnet, Environord...). We also work together with these local actors to present and promote EU funding, especially H2020 (NMBP) and SME Instrument.

Author: Benjamin LEROUX / CCI de région Nord de France



Past Event: Meet & Greet in Flanders - Successful Company Mission in Smart Textiles

The EEN partners in Flanders and Thuringen, both being member of the Sector Group Materials, have organized a successful company mission to Flanders/Belgium.

Ten participants from Thuringen have visited the region Flanders, a high-tech region with a range of clusters and innovation centres for technical and smart textiles.

During 9th to 10th September 2015 the group has visited the research campus in Gent like University Gent and Centexbel, but also companies like Bekaert, Sioen and Utebel. Meetings in their showrooms and presentations of products led to fruitful discussions between both sides. The highlight was a visit at the Textile Incubator TIO3 in Ronse. The hosting companies presented a plenty of very impressive projects and prototypes.



Finally all participants met at the bistro atelier for a „Meet & Greet & Eat“ including face-to-face meetings and first exchange of ideas. Even the TV channel for entrepreneurs “Kanal Z” was present and made interviews with the companies from both regions.

The programme was perfectly organized and efficient for the participants – thanks to the efforts made by both EEN staff. Recent follow-up gave us a very positive feedback by our clients. Hoping for joint achievements for the future.

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