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

Editorial

Season's greetings from Sector Groups Materials!

Materials community continues to amaze us with the recent developments. Did you know that it is now possible to cook with pots made out of carbon fiber reinforced composites? This is exactly the same stuff used excessively in aerospace and automotive industry.



The Enterprise Europe Network is at the center of open innovation and as experts in the Network, we are pursuing collaboration opportunities between different industries, disciplines and application areas. If you would like to learn more on such opportunities, simply just connect to your local Network member!

2018 has been a marvelous year with lots of events, networking and cooperation agreements. In 2019, we will be again dedicated to Network's strategy and vision as we are always eager to bring impact to your business!

Stay tuned!

Can Kartoglu - Chair

Moustapha BIHYA

CHAMBRE DE COMMERCE ET D'INDUSTRIE DE REGION NOUVELLE-AQUITAINE 

The region Nouvelle-Aquitaine created in 2016 by the merger of the former regions: Aquitaine, Limousin and Poitou-Charentes, is the biggest French Region. It ranks as the 3rd economic French Region and at the 1st place for the R&D.

It hosts 3 international specialized competitiveness clusters that gather Universities, SMEs, Big companies, technical Industrial Centers, Engineering consultants, R&D firms, and public organisations :

- the “*Aerospace Valley*” (860 members, 505 SMEs),
- the “*Alpha RL HF*” (860 members, 505 SMEs), which is the result of a merger of the 2 clusters Alpha Routes des lasers (specialized in the Laser technologies and applications) and Elopsys (specialized in the Ceramics Photonics)
- *Xylofutur*: (160 members) the wood cluster The region Nouvelle-Aquitaine is member of the interreg program “Public Policy Living Lab” (P2L2”).

The Public Policy Living Lab (P2L2) project supports countries and regions invested in the field of advanced materials by introducing or improving local policy to support innovation in this field.

News

AMALFI - Alloy and process development with a focus on aluminium and magnesium

The Competence Center for Light Metals in Ranshofen, Austria, researches together with partners from industry and academia **novel aluminium and magnesium alloys for future industrial applications**. The **AMALFI** project (aluminium and magnesium alloys for future industrial applications) is funded by the province of Upper Austria and the Austrian Research Promotion Agency (FFG).

With a view to new demands on materials, processes and technologies, the alloys and processing technologies developed from the predecessor project AMOREE will receive a technological boost over the next 4 years in order to be prepared for industrial applications of the future. The AMALFI consortium will also dedicate itself to a field of basic research: the development of novel microstructure models for aluminium and magnesium alloys.

Mechatronics and Motoristics Clust-ER in Emilia-Romagna, Italy

The Mechatronics and Motoristics Clust-ER is an association of public and private bodies: companies, research centres, and training institutions that share skills, ideas and resources to support the competitiveness of the sector.

The Emilia-Romagna Region has found in Clust-ERs the subjects capable of multiplying innovation opportunities through a collaborative approach, as they focus their activity in R&D strategic sectors.

Together with the 10 [Technopoles](#) and the [High Technology Network](#) laboratories, they are one of the key players in the regional innovation ecosystem coordinated by ASTER, the Emilia-Romagna consortium for innovation and technology transfer.

related value chains are;

DaAMa - Digital and Advanced Manufacturing

A&RER - Automation and Robotics in Emilia-Romagna

MoVES - Efficient, sustainable and smart Engines

MAMM-ER - Advanced Materials in the Manufacturing of Engines and Mechatronics

[FLY.ER](#) - Avionics and Aerospace

NAUTICAL - Nautical Affairs

FP - Fluid Power



Find your partner! The world largest online database of business opportunities is updated daily to connect you with interested companies and research institutes.

Manufacturing of an implantable neurological electrode

A Swiss medical technology start-up company is developing an implantable neuroprosthetic medical device that will allow amputees to feel again from missing limbs. For the manufacturing of the implantable neural electrode the SME is seeking a medical device manufacturing company. The manufacturing should be compliant with ISO standards for implantable medical devices. A manufacturing or technological cooperation agreement is sought. [READ MORE](#)

An italian creative hand-craft laboratory that produces handmade jewels is seeking for experts in plastic materials

An italian hand-craft laboratory, that works in the creative sector and produces handmade jewels from recovery polyethylene terephthalate (PET), is seeking for technicians or experts in processing PET, or plastic materials structurally comparable to PET, for a technical cooperation agreement or service agreement.

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Partners sought for the development of high-performance cellulosic fibre materials

A German company specialised in viscose specialty fibres is looking for partnerships to develop cellulosic viscose fibres with superior mechanical and chemical properties for applications in functional apparel textiles, technical nonwovens, hygiene products and specialty papers. Research and technical cooperation agreements are sought.

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Seeking partners with expertise in high-tech textiles and novel polymers to develop ecological garments

The UK company is a textile design business operating in the high end fashion market and specialising in organic and recyclable fabrics for outerwear and clothing accessories. They are looking for partners with expertise in sustainable and novel high-tech textiles to help them develop innovative eco-friendly fashion products. A technical cooperation agreement is sought. [READ MORE](#)

Hydrophobic nanoparticles technology (anti-fouling paints)

A company based in Luxembourg is looking for a partner able to provide nanoparticles technology to be added to paints, to prevent the adherence of organisms in aquatic environment. The company is looking for research or technical cooperation agreement. [READ MORE](#)

Powerful 3D microstructure simulation suite made for analysing metallic materials behaviour

A German university spin off offers a suite to simulate the microstructure of metallic material processes. It does not only provide common materials data such as stress-strain diagrams and composition maps without the need for extensive experiments, but it provides 3D data on all simulated quantities which can lead to new insights into materials development. Partnerships considered are on a technical cooperation and research cooperation basis. [READ MORE](#)

Printed medical solution

An Italian startup, specialized in bioprinting activity, develops 3D-bioprinters, key structures and compositional materials targeting human tissue repair and regeneration. The startup is looking for industrial partner working in the health-care area for manufacturing, financial or licensing agreement for the industrialization of its products. [READ MORE](#)

Innovative lightweight eco thermal concretes and eco lightweight granulate products (ELG-products)

A Serbian company produces innovative lightweight concrete products for construction of: walls, ceilings/floors/roofs and facade of energy-efficient and seismic-resistant buildings and chimneys, pedestrian zones, sports grounds, etc. The advantages are: 50% lighter; excellent load-bearing capacity, thermal insulation and seismic resistance; all walls are rebar-reinforced; construction is faster, cheaper and more sustainable by 40%. It seeks partner through commercial agreement. [READ MORE](#)

Aluminium-silicon alloy for tribological applications

Research institute from Belarus developed a method to manufacture silumin with silicon particles of globular form. The properties of such aluminium-silicon alloy allow it to replace bronze in tribological applications improving the wear resistance 2 to 3

times. The institute is looking for industrial partners for manufacturing agreement or commercial agreement with technical assistance. [READ MORE](#)

Tailor-made ceramic formulations for coatings with advanced properties for the energy sector

A Basque SME that designs and produces tailor-made ceramic & cermet formulations offers antifouling and corrosion resistant coatings for seawater heat exchanger, high-temperature environments like power generation boilers and for off-shore marine machines. This SME has developed a technology that obtains much better results than conventional coatings sintered at low temperatures. They're looking for partners (Original Equipment Manufacturers) for technical cooperation or manufacturing agreement. [READ MORE](#)

A Finnish company is seeking for a supplier or manufacturer of foam plastic components

A Finnish eco-design company is looking for a supplier or manufacturer of designed and round shape-cut foam plastic components. The diameter of the component is 90 mm. The desired form of cooperation is a manufacturing or a subcontracting agreement. [READ MORE](#)

Looking for a manufacturer of tungsten shielding elements

A Swiss intergovernmental organization / research centre is looking for supplier of around 3000 shielding elements made from Tungsten Heavy Alloy (WHA) with low magnetic permeability. The partner sought for a manufacturing agreement will be able to manufacture and deliver the shielding elements according to the tolerances listed. [READ MORE](#)

[Click here to search for more cooperation opportunities](#)



Check out the brokerage events or company missions organized or supported by the Network!

Brokerage Event on Key Enabling Technologies for industrial applications - 31 January 2019 - Italy

Key Enabling Technologies (KETs) are drivers of innovation and set important impetus for an intelligent and sustainable economic growth in Europe in order to ensure the future viability of our society. The KETGATE project is an initiative supported through Interreg Central Europe and the aims is to connect Business Support Organisations (BSO) and Research and Technology Organisations (RTO) in order to help SMEs accessing high-level technologies. The brokerage event will be

organised also in the framework of Enterprise Europe Network, the largest technology transfer network of brokers in the world in order maximize the involvement of RTOs and SMEs and generate a great number of collaborations.

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Brokerage event for Industry 4.0 @ Global Industrie in Lyon, France - 6-7 March 2019 - France

As in Paris in 2018, the fair Global Industrie will be held in Lyon, and will take place from 5th to 8th March 2019 at the Eurexpo Exhibition Centre. This fair is the only one that covers the whole of industry and enable you to discover your partners and all the solutions, technologies, services and know-how you need for the industry of today and tomorrow. 45 000 visitors from all around the world are expected.

During Global Industrie, on 6-7 March, the organisation Auvergne-Rhône-Alpes Entreprises will organise international Business meetings. This matchmaking event, with pre-arranged meetings on a dedicated platform, is an opportunity for participants to meet potential international cooperation partners for technological, commercial or applied research projects in the field of Industry 4.0. It will also be open to H2020 call for proposal related to this thematic (under selection).

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Brokerage Event in the framework of the International Fair of Metal Processing STOM 2019 - 27 March 2019 - Poland

The event will be organized on 27th of March 2019 in the frame of 12th sheet metal processing and cutting fair Stom-Blech & Cutting, 12th metal processing, tools and machine tools fair Stom-Tool, 6th industrial laser and laser technology expo Stom-Laser, 2nd industrial robotics expo, 27th fair of industrial measuring technology Control-Stom, 14th international fair of welding technology and equipment Welding, 10th exhibition of corrosion protection technology and surface treatment Expo-Surface, 11th 3D printing days, 6th virtual processing trade fair Wirtoprocesy.

The Stom fairs held in Kielce is the showcase for the latest technologies as well as machines, the state-of-the-art technologies, tools and materials used in metal processing, including laser and water cutting systems, bending and forming, die shearing and painting, machines, equipment and technological solutions as well as materials used in the welding industry, the display is complemented with computer systems designed to support welding processes, automated equipment, robots, technological lines and technical gases.

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Futurebuild Matchmaking 2019 (Previously Ecobuild) - 6 March 2019 - United Kingdom

On Wednesday, 6th March 2019, Enterprise Europe is organising a FREE-to-attend matchmaking event. The event provides the perfect forum for potential partners – both visitors and exhibitors - to pre-arrange meetings and capitalise on UK and International construction opportunities, energy efficiency, recycling.

This is an excellent opportunity for specifiers, suppliers, contractors, distributors to discover new and innovative products and services from the international marketplace and a chance for product manufacturers, service providers, sub-

contractors to meet construction professionals, such as: architects, contractors, distributors, agents, builders' merchants, research centres, universities.

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Sector Group Materials Member Organisations



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