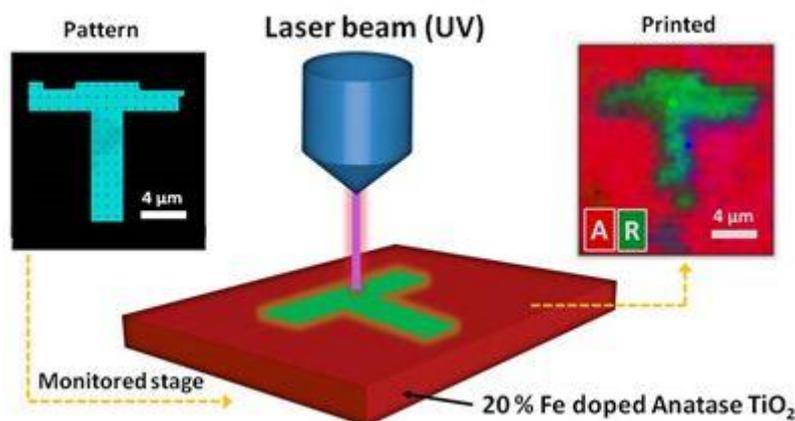




## Focus on Regional Excellence



### Functional materials for a better life: sensoric and catalysis applications

The **UCM- Research Group “Physics of Electronic Nanomaterials”**

([www.finegroup.es](http://www.finegroup.es)) is active since more than 20 years. The current research of the FINE group refers to the relationship between the structural features of electronic nanomaterials and their optical and electronic local properties. Most of the investigated materials are semiconductor nanomaterials, mainly oxides, synthesized by thermal evaporation methods.

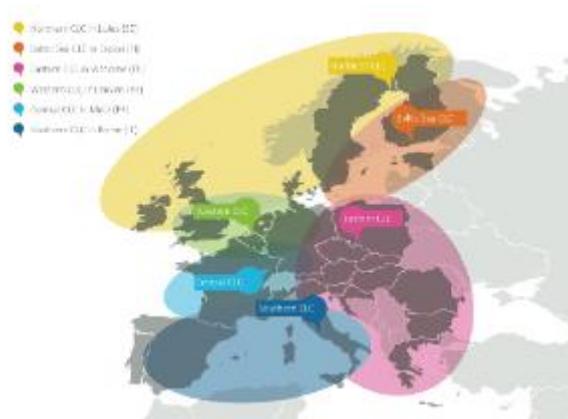
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## CICÉRON 200: R&D center of CICÉRON National plan on powder metallurgy for metallic and ceramic components

This news concerns a French plan of actions for a concerted deployment in Bourgogne and in Lorraine of HIP (**CIC**: Compaction Isostatique à Chaud in french) equipments named **CICÉRON**. This latter will be in direct connexion with the **powder metallurgy emergence**. It will develop metallurgical industries of the future with high-value-creating jobs of tomorrow on **French strategic segments** such as aerospace, automotive, railways, energy and defense.

[Read more](#)



## EIT Raw Materials – boosting European cutting edge in raw material business

In December 2014, the European Institute of Innovation and Technology (EIT) decided to fund a new knowledge and innovation community on raw materials. With six co-location centres around Europe and headquarters in Berlin, the newly established *EIT Raw Materials* is among the largest innovation clusters globally in the raw materials sector: the expected EIT funding is estimated to be more than €200 million during the first five years of

operation. The investment aims to leverage new business in the raw material sector through commercialisation of research results, establishment of new start-ups, accelerated growth of SME's, as well as new ways to support a business mind-set and entrepreneurship in education. The different actions in EIT Raw Materials are expected to help creating 10 000 new jobs, starting 50 new companies and train 8000 new entrepreneurs in Europe.

[Read more](#)



### **IMAST - Technological district on Engineering of polymeric and composite materials and structures**

In 2004, the Campania Region, in agreement with the Italian Ministry of Research and Education, has promoted the establishment of IMAST, the technological district on Engineering of Polymeric and Composite Materials, in order to improve the regional economic development and create high quality employment by increasing the number of the innovative companies. The Campania region has distinctive and internationally recognized skills in this S&T field, (about 25% of the Italian papers published in this field on the most important specialized international journals; one of the most cited researcher in the world is from Campania region), about 600 researchers involved in this area (65% of which are employed in public research centers), a network of collaborations with important international institutions (e.g. Stanford University, Penn State University, MIT and CNRS) and companies.

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## **Distretto Tecnologico Calabria Materiali Avanzati per le Energie Rinnovabili - MATELIOS**

Italy has put long the development of renewable sources as a priority of its energy policy, together with the promotion of energy efficiency. Despite the strong increase in the number of operators active on the Italian market for renewable energy, there are shortages of expertise and strategic technologies that not allow independence and advanced technological developments from abroad. In recent years the Italian industry has grown at reduced rates, in a context in which predominated the small size of domestic producers and the significant reliance on international markets to meet the demand for components and systems for the production of energy from renewables. Due to the small producers and the excessive fragmentation of local experiences (both in research and development of products / energy services, is part of the investments for the activation of technological chains), in the absence of a strategy interregional agreed, however, it has often penalized the potential results obtainable with the resources in the field. The trend indicated is confirmed by the regions of the Southern Italy where the delay is greater than the rest of the country.

[Read more](#)



### **“Materials for Europe”, Warsaw, Poland 19 September 2015**

“Materials for Europe” – an event organized by the European Materials Research Society (E-MRS) and the Federation of European Materials Societies (FEMS), under the umbrella of the European Materials Forum (EMF) and the Alliance for Materials (A4M), was held in Poland’s capital Warsaw on 19 September 2015. “Materials for Europe” was established as integral part of a “Materials Weekend”, bridging the two largest materials conferences ever held in Central Europe, the E-MRS Fall Meeting and the FEMS EUROMAT conference. Both conferences and the “Materials Weekend” aimed at strengthening materials science and engineering in Europe and increasing its visibility. The goal was to demonstrate that the development and the application of new materials are essential to meet societal needs associated with energy, health, transport and climate change.

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### **Future healthcare goes Smart Textiles**

With Smart Textiles, a large part of the health monitoring can be done from home in the future. One example is a regular shirt with integrated sensors that can be used to measure breathing and heart activity and thereby reducing the number of visits to the hospital. Li Guo, Smart Textiles, wrote

her thesis about “Textile-Based Sensors and Smart Clothing System for Respiratory Monitoring”. She has designed a piece of clothing that can sense the movement of the abdomen and thorax as you breathes. The shirt with integrated sensors that measures breathing and transmits signals to an electronic device.

[Read more](#)



## The 7th International Conference NANOCON 2015

October 14-16, 2015, Brno, Czech Republic

The conference is focused on nanomaterials, their properties, characteristics and applications in different areas, including biotechnology and medicine. Plenary lectures will be given by Prof. Dr. Louis E. Brus from the Columbia University (U.S.A.), the discoverer of the quantum dots and Prof. Dr. Patrick Schmuki from the University of Erlangen.

[Read more](#)

## Editorial board members





The MATCH project was initiated to strengthen and deepen the Alliance4Materials strategy with a further increased stakeholder network. The project is coordinated by Italian Centro Sviluppo Materiali and the whole consortium consists of 18 partners from nine countries representing the six related European Technology Platforms and several major European material research organisations.

The project started in January 2015 and will continue for 30 months until June 2017. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 646031. [Read more](#)

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