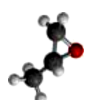




European Action towards Leading Centre for Innovative Materials

On the 1st June 2013 the Institute of Physics, Polish Academy of Sciences (IF PAN) has started a new project: “European Action towards Leading Centre for Innovative Materials” (**EAgLE**). The aim of the project is to establish within the Institute a leading multiprofile research Centre for designing and fabricating new materials, their characterization and testing under extreme experimental conditions. **The project is financed by the European Union’s 7th Framework Programme under the grant agreement REGPOT-CT-2013-316014.**

IF PAN has a long and well documented track record in setting new directions in physics of materials and in pioneering studies of the structure–property correlation at different scales. In order to bring the corresponding research and innovation potential to a higher level and to make the Institute a pro-creative centre for the regional development, the activities of the EAgLE Centre are focused along three axes, cross-cutting through the organizational scheme of IF PAN.



Development of new materials, structures and devices aimed at enhancing their potential applications and new or better functionalities. The emphasis is on the improvement of existing methods and on inventing new means of material and nanostructure fabrication, bearing in mind their impact on the environment and abundance of the constituting elements.



Introduction of new and upgrading the existing research tools and protocols for element specific and spin sensitive characterization of materials with nanoscale resolution in three dimensions, available also for external users (academia and industry – including SMEs).



Development and standardization of user-friendly computational methods for materials design and modelling of functional properties, including code validation and benchmarking, available also to external users.

The innovative research potential will be stimulated by (i) know-how exchange with leading European partnering organization, (ii) upgrading human capacities and research infrastructure, (iii) links with the socio-economic environment, the region and industry.

