INFORMATION on EAgLE Project

(EU-FP7 grant no. REGPOT-CT-2013-316014-EAgLE)

The EAgLE project aims at establishing at the Institute of Physics, Polish Academy of Sciences (IF PAN) a leading multiprofile research Centre for designing and fabricating new materials, their characterization and testing under extreme experimental conditions. The Centre will identify and select novel materials, structures, phenomena, and computational protocols for functional new-concept nanodevices.

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The Centre benefits from twinning with 16 partnering institutions having the sound expertise in the field of materials fabrication (e.g. MBE, chemical synthesis, lithography, FIB), characterization (e.g. XPS, TEM, EELS, synchrotron – diffraction and spectroscopy, NMR), nanodevice design and testing (e.g. semi- and superconducting electronics, cryogenics, computer simulations). The research potential will be enhanced through employment of both experienced and young researchers in the relevant fields.

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Within the project an X-Ray Photoelectron Spectrometer (XPS) will be acquired, making it possible to perform element specific and chemical sensitive characterization of materials with 3D resolution. A cryogen-free dilution refrigerator will be another essential purchase opening new opportunities to follow properties of the materials and devices down to a few miliKelvins.

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An important goal of the Centre is exploration and standardization of user-friendly computational methods for materials design and for modeling of functional properties and nanodevices, including code validation and benchmarking, available also to external users.

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The awareness of issues related to the field of intellectual property, licensing, and patenting will be raised among the staff members via a series of dedicated workshops, in order to improve the transfer of innovations to new spin-offs, SMEs, and industry.

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The EAgLE project has been supported also scientific workshops and international conferences. Among others are the “Antiferromagnetic spintronics: materials, characterization, functionalities” symposium within the E-MRS Fall Meeting 2014, the International School and Symposium on Synchrotron Radiation in Natural Science, ISSRNS 2014, and Topical Session “Materials in Spintronics during the ICGE-17 Conference in 2013.

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The International Steering Committee chaired by prof. Tomasz Dietl (Institute of Physics, PAS, Poland) is an advisable body to the EAgLE project. ISC consists of 15 internationally renowned experts representing research sector as well as regional authorities and industry.

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More information about the EAgLE project you will find at the internet pages:

http://www.eagle-regpot.eu/