NANOSYSTEMS: AN EDUCATIONAL PROJECT

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Abstract

The main goal of the project is integration of views and an effective communication of three specialized teams, which presently create individual departments of the project submitter; and transfer of knowledge to target groups within the below-described fields focused on one common theme nanosystems. The project comprises of six main key activities, which are summer schools, workshops, seminars, specialized seminars, seminars for secondary and undergraduate students and final conference. Currently Palacký University Olomouc has three teams which are engaged in: i) preparation, characterization and application of nanomaterials, ii) preparation, characterization and application of complex compounds on bio-disciplines and material research and iii) theoretical study of structure and dynamics of bio-systems and intermolecular interactions. In the effort of increase of their European and World competitiveness these three teams agreed on intensification of their mutual cooperation, which shall be executed in two levels. a) Participation in the mutual Project “OP VK 2.3”. This integration and effective communication shall result in considerable increase of potential in the sphere of science and research; not only within these teams but also within the target group. b) The second level of the project is aimed at enhancement of abilities of individual members of the teams and also the target group in the field of transfer of knowledge and technologies to industrial sphere. This resulted in participation of the Czech-Nano-Cluster as the main partner of the project. The main aim of the partner shall be represented by extension of mutual know-how into spheres of industrial applications. Execution of specialized seminars, which shall be focused on transfer of knowledge in the sphere of marketing, transfer of technologies and protection of intellectual property, is another indispensable activity of the project. Strong regional industrial entities shall be integrated into the project, where a great number of these companies already cooperate with the submitter of the project. Further details and materials from the realized activities can be found on web page http://nanosystemy.upol.cz. Acknowledgement: We thank the European Social Fund and the State Budget of the Czech Republic for financial support of Project No. CZ.1.07/2.3.00/09.0051.

Author did not supply full text of the paper/poster