

Preface

The Xth International Conference X International Conference "Prospects of Fundamental Sciences Development" (PFSD-2013) was jointly organized by Tomsk Polytechnic University, Tomsk State University and Tomsk State University of Architecture and Building in April 23-26, 2013, Tomsk, Russia.

The conference had successfully gather young researchers like post-doc and students, and experienced researchers working in nanotechnologies, materials science, including chemical, physical and mathematical aspects of materials elaboration and application field in order to facilitate aggregation and sharing interests and results for a better collaboration and activity visibility.

The topics of the Conference were: (1) Physics: accelerator physics, condensed state physics, surface physics, the physical basis of radiation, electric discharge and plasma technologies, hydrogen energy, geophysics; (2) Chemistry: solid state chemistry, novel materials, physical-chemical methods in ecology, petroleum chemistry, and ecology, organic synthesis, biotechnology, catalysis; (3) Mathematics: mathematical modeling and data analysis, mathematical methods in physics, chemistry, biophysics, biology, economics, ecobiology, ecogeology, medicine, psychology, mathematical logic and applications, computational mathematics, differential equations; (4) Nanomaterials and Nanotechnology: nanomaterials synthesis, physical, chemical and biological properties of the nanoparticles, and methods of diagnosis and research of nanomaterials, metal-, plastic, carbon and composite nanomaterials, application of nanomaterials; and (5) Technology: architecture and construction, electrical engineering, optics, geo-engineering, mechanics.

We want to thank the Organizing Committee, the Universities and Sponsors supporting the conference, and everyone who contributed to the organization of this meeting, for their contribution towards the conference and for their contributions to this proceeding.

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