Preface

The IV International Conference for young scientists "High Technology: Research and Applications 2015" (HTRA 2015) was held at Tomsk Polytechnic University, Tomsk. Russia on April 21-24, 2015. The goal of the conference was the development of cooperation between young researchers in the field of engineering sciences and high technology application.

A number of research projects developed by students and postgraduates were presented at the conference. These are topical projects on the development of novel materials and coatings for multiple applications, modelling of applied problems and IT applications, technology for the production and use of nanomaterials, the achievements of modern optics and laser technology, discharge and plasma technologies, etc. More than 350 young and experienced researchers from Russia and abroad participated in the conference. Conference focused on modern technology and the advances in science and technology based on an interdisciplinary approach to problem solving.

More than 350 papers were submitted to the conference which covered the topics such as:

- 1 Electric Discharge and Beam-Plasma Technologies
- 2 Advanced materials and nanotechnology
- 3 Optical technology
- 4 Chemical engineering
- 5 Reliability in mechanical engineering and mechanical engineering technology
- 6 Simulation of physical and chemical processes in modern technology
- 7 Modern information technology

The Conference gave the opportunity for all participants to exchange the last ideas and experience, to establish business contacts and to meet a further partner for joint project, to discuss perspectives and ways of cooperation.

The Organizing Committee of HTRA 2015

Dr. Nikita Martyushev, TPU Anna Bogdan, TPU

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