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Summary

**HIGHER EDUCATION REFORMS
AND ACADEMIC COMMUNITY**

A.A. Dulzon
National Research Tomsk Polytechnic University

The paper aims at drawing academic community's and authority's attention to the systemic crisis of Russian higher education and the necessity for country-wide discussion to find rational crisis recovery. It studies the reasons and propagation of the crisis in the higher education and provides some solutions to overcome the problem. It underlines the necessity to involve wider academic community and Russian society in development of technologies to overcome crisis. The relevance of higher education institutions consolidation is put under reasonable doubt. The author highlights the necessity of balanced approach to the competition in the education system, with turning focus on comprehensive cooperation at all levels. The article suggests initial steps to ensure basic conditions for stability and further improvement of the university system efficiency. Therewith, it is crucial to ensure high standards of ethics and integrity of the academic community and management staff of the universities.

**ENGINEERING EDUCATION
AND TRAINING OF YOUNG ENGINEERS:
PRACTICE AND URGENT ISSUES**

L.N. Bannikova, L.N. Boronina,
Yu.R. Vishnevskiy
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The paper studies the role of education system in preparing engineering staff through developing new approaches to designing education programmes and new educational technologies. The conclusions are based on a survey conducted at big Ural industrial enterprises and multi-year engineering student monitoring.

**SOCIAL AND PROFESSIONAL
ADAPTATION OF UNIVERSITY
GRADUATES IN THE LABOUR MARKET**

E.V. Politsinskaya, A.V. Sushko
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The article deals with the problem of adaptation of graduates of higher education institutions in the labor market in modern conditions. Based on the results of questionnaires and interviews with young specialists and employers, factors that influence the social and professional adaptation of graduates of higher education institutions are revealed. The viability of interaction of outcome-based, contextual, problem-based and personality-oriented approaches in the educational process to prepare a competitive specialist who is able to successfully adapt in the labor market is explored.

**PROFESSIONAL CULTURE
AS BASIS FOR ENGINEERING
MASTERS' PROFESSIONAL ACTIVITY**

Yu.V. Podpovetnaya, A.D. Podpovetny
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Today, the enhancement of engineering master's competitiveness requires a cultural ground. The article justifies that the formation of a cultural ground is achieved through the development of a professional and project-oriented culture, as well as a scientific and methodological culture of master students within the process of engineering education. Both professional and project-oriented, and scientific and tutorial cultures are presented in the article as important qualities of engineering master students; their structural components are identified taking into account future masters' professional activities. The inability of the existing pedagogical models to solve the identified problem sets a task of developing two basic models: