

# Competency

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**6 Becoming a Specialist from the Point of Modern Professional Development Concept.** Dr. O.A. Kozyreva, Associate Professor, Correctional Pedagogy Department, Krasnoyarsk Regional Institute for Further Training and Educationalists Occupational Retraining, Krasnoyarsk

Specialist professional development problems are the subject of many scientific articles. It is widely discussed in the domestic and foreign psychological researches. This article discusses various approaches to solving the problem, analyzes basic conditions of certain domestic and foreign concepts

Key words: professional development, personal and professional development, specialist professional development concept

**19 Knowledge Based Network Principles of Economy Construction.** P.M. Provintsev, Director, Russian High Technology Development Fund, Moscow

At the beginning of XXI century, Russia was faced with problems in all critical development areas. Nevertheless it has the possibility to overcome the negative tendencies. To implement the scientific educational and intellectual capacity it is necessary to create and launch an innovational economy infrastructure, which should be based on modern organization and management network principles

Key words: modernization strategy, organization and management network principles, cognitive centers, innovation infrastructure

**22 On the Self-Regulatory Organizations.** Prof. Dr. V.V. Pomazanov, General Director, Nonprofit Partnership, Industrial Group, Reagent Production, CenterReachim (NP IG RP CenterReachim), Moscow, Dr. D.I. Pishikov, Head of the Laboratory, Modern Technology Materials, FSUE, IREA, Moscow

Participants' performances of the second All-Russian forum of self-regulatory organizations are analyzed. The authors of the article conclude that there are serious problems in the Russian Institute of self-regulation formation and underline the main causes of their origin

Key words: self-regulatory organizations, self-regulation institute, self-regulatory organizations national union, non-profit sector unions

**24 Supercomputers as an Instrumental and Information Base of the Technical Regulation Information System.**

Prof. Dr. L.G. Dubitsky, FSAEI FPE, Academy for Standardization, Metrology and Certification (Educational) (ASMS), Moscow, Dr. M.N. Grigorieva, Moscow

Problem of modern information base for megaprojects' implementation is studied. It is shown that such framework can be realized on the basis of supercomputers. The data on some of today's TOP500 supercomputers are given. Computer equipment and technology development prospects are discussed

Key words: supercomputers, megasystem, information base, intensive calculations

**32 Military Standardization in Russia.** G.P. Bunin, Senior Engineer, Russian Research Institute for Engineering Standardization and Certification, Moscow, Dr. M.B. Plushchevsky, Reader, First Government and Civil Service, Expert, The Federal Agency on Technical Regulation

and Metrology, Deputy Head TK 349 Waste treatment, Moscow, A.V. Plotnikov, Deputy Quality General Director, CJSC, Radiolocating Concern, SKALA, Moscow

Brief history of Russian military standardization formation and development, its importance and problems is given. The article is devoted to the military standardization development prospects from the point of its maximum efficiency in the field of defense, using a variety of technical, technological and organizational solutions

Key words: standardization, military standardization, standard, innovative development, modernization

**40 Concept Development of the Object Exploitation Organizational Control System.** Dr. V.S. Laguta, CJSC, Industrial Research Institute, Moscow, Dr. M.V. Ovsyannikov, Bauman State Moscow Technical University, Computer Work Automation Systems Department, Moscow

It is necessary to develop a project concept for the exploitation organization control of the highly important unit, as well as to concern its content and requirements

Key words: organizational control system, concept, project

**45 Ferromanganese Martyrdoms.** Prof. Dr. V.V. Pomazanov, General Director, Nonprofit Partnership, Industrial Group, Reagent Production, CenterReachim (NP IG RP CenterReachim), Moscow

Situation that occurred in the Krasnoyarsk region, where regional authorities have blocked the implementation of an important strategic project (construction of the Yenisei ferroalloy plant) is discussed. The author analyzes the problem and the reasons of its origin

Key words: ferroalloys plant, manganese ferroalloys, public private partnership, project environmental cleanliness

**48 Optimizing Output Measuring Serial Production Control.** Dr. S.B. Danilevich, Professor, Siberian Consumer Cooperation University (SibCCU), Full Member, Academy for Quality Problems, Novosibirsk, T.M. Solovieva, State Siberian Geodesic Academy, Novosibirsk

An approach to technique optimization of the output measuring serial production control is discussed. The method is based on the use of imitational model control procedures

Key words: measuring multiparameter control, customer's risk, manufacturer's risk, simulation modeling, optimization

**52 Grain Temperature Monitoring System in Grain Elevators and Granaries.** A.D. Maslo, Engineer, SCB JSC RPE, Etalon, Omsk, D.Yu. Kropachev, Senior Engineer, SCB JSC RPE, Etalon, Omsk, Dr. A.Yu. Nedelko, Senior Engineer, SCB JSC RPE, Etalon, Omsk

Physical and biochemical reactions accompanied by calorification are continuously occurring while its storage. That leads to grains self-warming. The quality of grain decreases while self-warming and it loses the weight of dry matter. Temperature monitoring of the grain during storage helps to prevent adverse effects and reduce losses. Therefore, the temperature of a grain is an important characteristic while its storage

Key words: grain storage, grain temperature, monitoring, multizone temperature sensor, controller, system