

# Competency

4/95/2012

**7 Plans are Made, Tasks – Defined.** Prof. Dr. G.I. Elkin, Head, Federal Agency for Technical Regulation and Metrology, Moscow

The final Board of the Federal Academy for Technical Regulation and Metrology took place on March 2012. Here is the report of the head of the Federal Agency Elkin G.I. about guidelines for action, work results and department's first priorities

Key words: technical regulation, standardization, metrology, conformance evaluation

**12 Process Improvement in Complicated Shape Item' Production.** Prof. Dr. B.V. Boitsov, Head of Department, Moscow Aviation Institute, First Vice-President, Academy for Quality Problems, Moscow, Dr. Yu.Yu. Komarov, Professor, MAI, Academician, Academy for Quality Problems, Moscow Improvement in the quality of polymer composite complex items, as well as the possibility of superior model application while quality planning and forming are on consideration. Experimental data that confirm methods' effectiveness are cited

Key words: polymer composite, quality forming, technological process, improvement, cause-effect relationship

**14 Quick Thermometry of Metal Melt.** D.Y. Kropachev, Senior Engineer, JSC RIE, Etalon, Omsk, A.A. Grishin, Deputy Director, JSC RIE, Etalon, Omsk, A.D. Maslo, Engineer, JSC RIE, Etalon, Omsk

Different variants in ferrous and nonferrous metals melt thermometry while work processes in machine building plants are on consideration. Advantages and disadvantages of these methods are given

Key words: foundry, measuring, measurement precision, melt, melting temperature, metal, thermoelement, pyrometer, sensor

**18 Metafirm as a Modern Form for Business Activity.**

Dr. I.D. Kotlyarov, Associate Professor, Department of Financial Market and Financial Management, Research Institute, Higher School of Economics, St. Petersburg

The ideas of the firm internal and external environment are analyzed according to the specificity of modern forms in business activity.

Internal environment structure and up-to-date mechanisms in business, as well as interaction between a firm and external environment are clarified. To generalize the meaning of the word firm, the definition metafirm is given

Key words: internal environment, external environment, firm, network economics, virtualization, business activity

**26 SWOT-analysis of the Process Functioning.**

Dr. V.A. Novikov, Pro-rector, FSAEI FPE, ASMS, Moscow, A.I. Grishin, Graduate, Distance Learning, FSAEI FPE, ASMS, Moscow

Any activity within an organization can be considered as a set of processes in the management system. By the results of the SWOT-analysis of the process Manufacturing Equipment Maintenance in machine building plans typical process problems are exposed

Key words: maintenance, equipment, strategic management, SWOT-analysis, strong and weak sides of the process

**32 Process and System Approaches to the Mastering of Science Intensive Technologies in Plastic Forming.**

Dr. V.G. Kutyaikin, Deputy Head of Department, Standardization, Certification and Management Control, Nizhny Novgorod Branch, FSAEI FPE, ASMS, Nizhny Novgorod, N.A. Makarov, Director, Nizhny Novgorod Branch, FSAEI FPE, Academy for Standardization, Metrology and Certification (ASMS), Nizhny Novgorod

The results of process and system approaches implementation in science intensive metal-working technologies mastering, particularly

in three-dimensional plastic deformation are announcing. The given approaches are well described, the results of technology characteristic of three-dimensional deformation used in engineering calculations are stated

Key words: process approach, system approach, ISO 9000, science intensive technologies, metal warping, deformation zone, technology characteristics

**37 Output Goods and Consumer's Satisfaction Analysis.**

Dr. S.V. Kuptsova, FSBEI HPE, K.A. Timiryazev Russian State Agrarian University MTAA, Moscow

Reclamation data on output goods are analyzed. Cause tree diagram of their origin is given. The range is made by appearance frequency

Key words: product quality, consumer, feedback, reclamation

**40 QMS in Residential Treatment Center.** L.A. Prohorova,

Director, Residential Treatment Center for Children and Teenagers with Limited Health Capacities, Lagnepas, Khanty-Mansi Autonomous – Ugra, Tumen region., Dr. L.A. Fedik, General Director, LLS, Standardization, Management and Certification Center, Tumen

L.P. Smytok, Deputy General Director, LLS, Standardization, Metrology, Certification Center, QMS, Ecological MS, Integrated MS, Job Safety MS Expert, Tumen

QMS implementation in the work of residential treatment center for children and teens with limited health capacities 'Anastacia' helped its to improve social service quality

Key words: quality management system, social services, social rehabilitation

**42 Evaluating the Effectiveness of Product Quality Sampling Test Methods.** T.M. Solovieva, Graduate, State Siberian

Geodesic Academy, Novosibirsk

The given article leads on the need for effective quality control methods of commercial products. The results of simulation of selective control that determine the quality of the product are described. While that only a certain part of the product in the lot is inspected

Key words: multivariate measuring control, controlled product characteristics, second kind control error probability

**44 Design as an Innovation Power Oriented towards a User.**

[P.D. Volkov], Associate Professor, Gubkin Russian State University of Oil and Gas, Moscow

The design work in Russia and abroad is on consideration. Management policy and design support at the national level helps to consider a modern design as a strategic tool for economic progress, innovation and competitiveness of the countries

Key words: design, innovations, competitiveness, national policy of design support, design education

**48 Shoe Material Quality Evaluation Methods.** O.A. Petrova-

Burkina, Graduate, Institute of Technical Acoustic, Belarus National Academy of Sciences, Vitebsk, Belarus, V.D. Borozna, Student, Design and Technology Faculty, Vitebsk State Technological University, Vitebsk, Belarus, A.P. Dmitriev, Senior Teacher, Theoretical and Applied Maths Department, Vitebsk State Technological University, Vitebsk, Belarus, Prof. Dr. A.N. Burkin, Head of Department, Standardization, Vitebsk State Technological University, Vitebsk, Belarus

The author of the article reports about new method of shoe material deformation characteristics detection and creation of new machinery that will allow testing these materials. Analysis of existing home and foreign methods and devices is given. Advantages of the developed method are on consideration

Key words: stability of shape, deformation, pressing-out and tension, computer technologies