

## ABSTRACTS “INNOVATIVE TECHNOLOGY” 2 / 2012

### TRIBOLOGICAL BEHAVIOR SIMULATION OF HARD DENTAL STRUCTURES AND RESTORATIVE MATERIALS USING THE FINITE ELEMENT ANALYSIS

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*Simulating the biomechanical behavior of a reconstruction using the finite element analysis method is a modern method necessary before the practical stage of a research, thus enabling the precise shaping of certain trajectories in the approach of certain directions of practical applicability, as well as obtaining final results with relevant data (results coupled with experimental models that reiterate the clinical situation that will be later analyzed).*

### CONTROL CHARTS FOR MONITORING THE ELECTROSTATIC CHARGING PROCESS OF AIR FILTERS

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*Non-woven fabrics are extensively used in air filters for their high dust collection efficiency. Their filtering properties can be improved if it is applied a current of electrostatic nature. Statistical Process Control (SPC) is a statistical method for monitoring and control of a process, assuring that it functions at its whole potential in producing compliant products. One of the key instruments is the control chart. The purpose of this paper is to verify using the control charts, if the electrostatic charging process of filter material with a negative corona electrode is in control, otherwise said, stable, with a low variability of the results. At the scale of an air filter manufacturing process, the implementation of SPC and the usage of control charts is of great importance, for they monitor, identify the malfunctions and can avoid them through immediate interventions, this way limiting the losses of production.*

### SIMULATING HOW INCIDENTS ARE SOLVED IN AN IT COMPANY

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*The purpose of analysis for this paper is to model and simulate through a flow how incidents are solved in a IT company using Arena software. Today due to technology explosion IT companies represent a safe investment. This paper wants to review a normal bussines day and how all the incidents are handled.*

### ROMANIAN OVERVIEW CONCERNING THE HEALTHY LEARNING ENVIRONMENT WITHIN SMES

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*This paper aims to present and analyze the current situation in Romania regarding the SMEs healthy learning environment, with a focus on Bucharest-Ilfov region. Starting from the premise that workplace learning activities within SMEs play an essential role in maintaining or introducing the skills, knowledge and abilities needed to succeed, adapt and being competitive in a constantly changing environment, we looked at the current trend of formal and informal training and other learning activities within SMEs at regional and national level, comparing the situation to the European area. In our research we took into account studies previously undertaken by the ministries, national and European institutions, OECD reports and the Romanian White Cart of SMEs.*

**ROMANIAN OVERVIEW  
CONCERNING  
THE HEALTHY LEARNING ENVIRONMENT  
IN THE PLANNING OF  
IN-HOUSE TRAINING ACTIVITIES IN SMEs**

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*Workplace culture is a powerful tool for managers, a lodestar for employees and a source of success for companies. Organizational structure, knowledge acquisition, application and protection of knowledge are significantly related to organizational performance, technology, organizational culture and knowledge conversion as having a significant impact. The quality of training and developing new skills of labor force are important competitive factors. With respect to the lifelong learning and skills development, the training offers focuses especially on programs for gaining general skills (foreign languages, computer skills, accounting, etc.).*

**ASPECTS CONCERNING  
CONTINUOUS LEARNING  
IN ORGANIZATIONS**

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*Our society – as an ensemble – has great challenges in our world of change, concerning the way of working and the work organization. The most important “raw materials” of new economy are knowledge and innovative capacity. High speed or technological renovation and competitiveness requirements need a continuous bringing up to date of knowledge and the adoption of the life-long learning. Continuous Learning is the ability to learn to learn and it is a way of being in the world. It has become quite prominent over the past five years, because organizations are changing rapidly and it's difficult to find any approach to doing anything in organizations that doesn't soon become outdated. The concept of continuous learning has become important because it places priority on noticing, adapting and learning from change. It is essential to find new ways of communicating and working for individuals and organizations, in order to confront and solve problems. It is critically important to integrate ideas and information - drawing from the wisdom of the past and combining it with new findings drawn from studies in human and organizational development, from science and technology, and from the rapidly changing history of our own times.*