

QUALITY MANAGEMENT

- Cezar Simion-Melinte, *Quality Management in Construction VII. The Maintenance and Repair Process. Case Study*

This article presents the main aspects of maintenance and repair in construction activity. Maintenance policy should be the foundation construction corrective maintenance carried out in order to preserve the ability to conduct operations according to technical and economic documentation and construction to ensure adaptation to new requirements and user needs. Preventive maintenance and corrective maintenance are correlated, meaning that a maintenance policy which allocates funds for preventive maintenance will lead to the need for more costly corrective interventions as observed in the case study.

Keywords: management, quality, construction, repair.

- Mihai Vrîncuț, *Qualitative Techniques for Project Management V.b. Study on the Compatibility of MS Project with the Critical Chain Philosophy (III)*

We continue in this article our talk about the possibility of planning in MS Project according to the new critical chain methodology, by exploring the possibility of creating a project plan that eliminates resource conflicts and contains critical chain specific time reserves, the so-called "buffers", using only the tools currently provided by MS Project. We'll see that although the necessary tools for such planning currently exist in MS Project, their use requires knowledge beyond the basic use of the software, and also a good understanding of the principles underlying the critical chain planning.

Keywords: critical chain, theory of constraints, project management software tools, project planning.

- Gheorghe Cârstea, Oana Păun, *Management of Procurement and Material Resources – A Guarantee for Quality II. Management of Procurement and Material Resources and Quality Assurance*

This article continues the analysis of the impact that the management of procurement and material resources has upon increasing the performances of an organization through a quality assurance-based approach. We will consider how the management of procurement and material resources ensures compliance of the purchased materials with the specified supplying requirements. To this end, the identification, evaluation and selection of suppliers plays an important role, all based on their capability to deliver products in compliance with the requirements of the organization.

Keywords: management of procurement and material resources, quality, process management, quality assurance, evaluation and selection of suppliers.

- Abdel-Rahim Al Ali, *Some Aspects regarding the Staff Training in the Vision of SR EN ISO 9001:2008*

Currently, expansion of competitive markets requires increased focus on improved processes and mainly human resources. As a component of the human resources, training is of central importance due to the fact that it increases the quality of the work which is reflected in improved organizational performances and achieving financial and economic benefits.

In this paper the author presents some views on staff training, activity seen in the vision of SR EN ISO 9001:2008.

Keywords: human resources, training, management, process.

- Leonardo Casini, Enrico Marone, Gabriele Scozzafava, *Management Accounting in the Winegrowing Sector: Proposal and Development of an "Ad Hoc" Control System*

The purpose of this study is to propose a management control model which, for the time being, targets establishing the winegrower's production cost for a single bottle of wine, and flexibly utilizes the tools of management accounting by cost centres and/or by activity on the data already available to each winegrowing farm. Towards this end, we have built a specific software capable of determining the cost differences for each product typology even departing from little available information.

The proposed model was tested on several Tuscan wineries and proved to be a flexible control instrument capable of providing useful information for the management, especially for those farms which need to estimate the distribution of costs between the different generic types of products and between the various phases in which the production processes are divided, but that do not have a system for detecting and recording costs.

Keywords: wine business, winegrowing sector, accounting management.

- Claudio Bellia, Manuela Pilato, *Competitiveness of Wine Business within Green Economy: Sicilian Case*

Sicilian viticulture together with Sicilian agrifood system, now faces a phase of profound evolution linked, on the one hand, to the internal trends sector and, secondly, to the increasingly persistent process of globalization that affects the entire economy world. The present paper starts with a regional research project carried out in 2007, allowing today to update and analyse the critical factors of success of Sicilian wine-growing and wine-producing firms market-oriented in order to improve the position on the green wine market and to achieve sustainable development.

Furthermore, this work, has focused on principal Sicilian highly market-oriented wine firms and a new questionnaire was used in order to expand through the inclusion of advanced detailed techniques, such as a SWOT analysis and positioning matrix, making use green marketing strategies. In accordance to this, and in the light of the international and national financial and economic crisis with the actual framework, it is also passed to the identification of appropriate evaluation forms on the variables involved and the definitions of levels of encoding ad hoc database.

Keywords: wine market, sustainable development, green marketing strategies, business.

ENVIRONMENTAL MANAGEMENT

- Daniela Covino, Flavio Boccia, *Environmental Management and Global Trade's Effects*

To understand why and where management of international trade enters into the debate on sustainable development, it is important to see what are the root causes of environmental degradation. Our purpose is to shed light on the implications that the increasing trade liberalization has on the global environment and those that the protection of the latter may have on the growth and development of trade. So, first we discuss the causes of environmental degradation and, later on, we study the alternatives to management of environmental degradation, and finally, through the consideration of some important studies on the topic into question, we attempt to identify the net result of the influence that the environment on a global level undergoes from the progressive liberalization of world trade.

Keywords: environment, trade, effect, degradation, analysis, dynamic.

ENERGY MANAGEMENT

- Roxana Patraşcu, Eduard Minciuc, Diana Tuţică, Mihaela Norişor, Gabriela Ionescu, Paolo Stefani, *Reducing Environmental Impact through Efficient Utilisation of Biomass in a Cogeneration Plant. Case Study – Energy Supply of an Industrial Company through Biomass Utilisation in a Cogeneration Plant with Internal Combustion Engines*

In the present paper there has been performed a multi-criteria analysis, including energy and economic, in order to demonstrate the feasibility of implementation of a cogeneration plant that uses syngas obtained from biomass gasification, for energy supply of an industrial company from wood processing sector. After the technological

process there are wood wastes that are not completely re-used: bark, sawdust, wood chips. A part of these wastes is recycled and used as raw materials within a furniture and cellulose company, the rest of wastes can be used as biomass for gasification and then syngas can be used within a cogeneration plant for power and heat production. The economic criteria calculated for the cogeneration plant equipped with internal combustion engines meet all the conditions for economic feasibility (net present value is positive, internal rate of return is higher than actualisation rate (a), profitability criterion is higher than 1).

Taking into account the positive results of the analysis it has been underlined the opportunity of implementation of a cogeneration plant with internal combustion engines using biomass for an industrial company from wood processing sector.

The analysed solution has been proved as being efficient from the energy point of view – higher efficiency of cogeneration technology compared to separate energy production and also having a double positive environmental impact: fossil fuel savings – through biomass utilisation and through reduction of pollutant emissions – cogeneration technology.

Keywords: biomass, cogeneration, energy efficiency, gasification, internal combustion engine.

FOOD SAFETY MANAGEMENT

- Carmen Daniela Petcu, Cornelia Şulea, Mihaela Dumitrache, *Audit of Producers/Users of Compressed Air and other Industrial Gases used in the Food Industry*

This article aims to identify the key elements of food safety standpoint, which should take into account any food business operator producing / using compressed air or/and other industrial gases.

It also addresses auditors of food safety management system and natural or legal persons that provide advice to management systems.

Keywords: compressed air, industrial gases supply, food safety, legal requirements, food safety management system.

- Salvatore Tudisca, Anna Maria Di Trapani, Filippo Sgroi, Riccardo Testa, *Organic Farming and Economic Sustainability: The Case of Sicilian Durum Wheat*

In last years, the organic farming in the world is developing rapidly and Italy is the sixth country for organic area. Sicily is the main organic area of Italian territory and represents the first region for organic cereals. Among these durum wheat is the crop most widespread, especially in the hilly hinterland areas.

The paper aims to analyze the economic sustainability of organic durum wheat. For this purpose, it has been determined the gross margin of wheat within crop rotations of the Sicilian hilly hinterland, comparing 10 organic farms with 10 conventional farms. The results show a higher gross margin of organic wheat respect to conventional one, due to lower variable costs and higher production values, in which the organic payments represent a significant quota.

Keywords: organic payments, farm, gross margin, variable costs, profitability.

- Virginia Sarno, Monica Patricia Ardeleanu, *Information Management and Consumer Behavior towards GMOs*

Italy is a country free of transgenic production, where traditional values are very important still: attitude toward genetically modified foods has become clearer in Italy after some publications, above all of the Eurobarometer series. This study starts just from these researches. Food safety has been the object of increasing attention in recent years as a major consumer concern and of particularly increasing interest is the purchasing behaviours towards genetically modified foods: as a matter of fact, it appears to be the cause of particular doubts and hesitations among Italian consumers. So, the main aim of the present study is consider the role of knowledge and information in the attitude of consumers towards genetically modified products.

Keywords: agriculture, biotechnology, consumer, food, Genetically Modified Organism (GMO).

INFORMATION SECURITY MANAGEMENT

- Bogdan Ionescu, Iuliana Mariana Ionescu, Laura Elena Tudoran, *The Decision to adopt "Cloud Computing" Technology by Romanian Companies, a New Paradigm of Information Society*

In 2006 it was estimated that ICT contributes directly to EU GDP growth by about 5%. According to "The Global Information Technology Report 2013 – Growth and Jobs in the hyperconnected world" study, Romania is lagging behind most EU Member States in the field of information and communications technology (ICT), ranking 75 out of 142 countries in the Network Readiness Index (NRI) in 2013, the index that measures the tendency of countries to exploit the opportunities offered by IT&C. Although Romania has achieved a good infrastructural score it suffers in terms of market and regulatory environments and alack of coherent government vision to develop IT&C. This article aims to present the perception of students attending research or professional master classes organized by the Faculty of Accounting and Management Information Systems regarding the usefulness of „cloud computing" technology adoption by Romanian companies.

Keywords: cloud computing, decision to adopt, Romania, IT solutions.