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The archaeoseismology – a new scientific discipline for Bulgaria  
Boyko Ranguelov

Abstract

A new integrative discipline called archaeoseismology (now well known in the scientific world) is starting its development in Bulgaria. Targeted investigations to extract seismological information from ancient archaeological objects have been performed during the last several years and produced interesting and useful data and information about ancient earthquakes affected our lands. Something more – frequently strong earthquakes are accompanied by other consecutive natural disasters (tsunamis, landslides, liquefaction, etc.) the investigated sites – Provadia-Solnitsata and Cypele temple in Balchick gave the possibility to reconstruct the scenarios of the ancient disastrous events affected the old civilizations. The richness with high quality archaeological objects and the distribution of active seismic sources on the territory of Bulgaria are real forerunners to expect new and positive results of the investigations performed by the new born discipline in Bulgaria – archaeoseismology.

A new predictive factor in the breast cancer invalidity  
Manasi Nikolov

Abstract

The breast cancer is the most common malignant disease among the women and causes invalidity, which leads to important health, psychology, social, economic and legal problems. It is very important for the precise and right planning of the government finances to predict the number of disabilities women. The aim of this study is to popularize a new index - index of invalidization, which can describe the invalidity potential of the breast cancer and prognosticate the expected number of handicaps. Our results established that this index is very reliable and highly specific. The use of this index for the other social important diseases will help to improve the quality of the medical expertise and the quality of life of the disability people in Bulgaria.

New tendencies in harmony in the 20 and 21 century  
Nadezhda Todorova

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Analytical rationalization and codification of new harmonic tendencies are amongst the prerogatives of musical theory. Studying contemporary acoustic and sonic organization as a phenomenon which perpetually enlarges and reinvents its very own substance requires for the pre-defined theoretical conceptions of earlier times regarding the phenomenon of harmony and its integration into the contemporary realms of art of to be corrected by finding new and more adequate instruments of knowledge.

This presentation observes the transformation into the harmonic system of the 20 and 21 century, which is expressed by the effect of new harmonic conformities such as chromaticization, dissonance emancipation, linearization and polyphonization, as well as the individualized harmony as part of the common tendency of individualizing musical language. It outlines the basic tendencies in harmony which have been stimulated by the arrival of new tonal organizational systems (neotonicity and neomodality, free atonal and serial dodecaphonic principles, sonoricism and aleatoricism) in the discourse of vanguard schools from the beginning and middle of the last century and the post-modern epoch that followed.

The research of new and somewhat dissimilar phenomena and tendencies in harmony during the 20 and 21 centuries represents an objective premise to a more profound acquaintance with the peculiarities of contemporary musical thought and the complex art processes which have been evolving in the art of music during the past and present centuries.

Worlds of the Creative Man  
Borislav V. Toshev

#### Abstract

This is a narrative about the different sciences and the people of science with their creative activities. The scientific results should be published. These publications should be presented in the world system of abstracting, indexing and evaluation. The structure of that system is carefully described. The international publishing standards are considered. Some elements of the ethics of science are commented. The main scientometric characteristics for the science periodicals and as well as for the scientists are listed and discussed. The paper is directed to scientists working mainly in the field of art and humanities.