

EDITORIAL

Dear readers, with great satisfaction we release the second issue of volume 12 our periodical, Environmental Engineering: Research and Technology.

In this edition, the first two papers analyze environmental impacts: the first one reports the machinery used in marble and granite processing companies and characterizes the impacts generated by occupational exposure to mechanical vibrations, noise, as well as analyzes chronic diseases caused by exposure to mineral dust; the second paper evaluates the impacts generated by the fires in the potential activity of soil microorganisms in a fragment of Atlantic Forest in the State of Paraíba.

The third paper analyzes the fuel licensing situation in Rio Claro/SP and investigates compliance with the CONAMA 273 resolution in the municipality addressing the issue of environmental liabilities. The fourth paper presents the theme of solid urban waste, it discusses the adequacy of the municipality of Santana do Mundaú/AL in front of the new National Policy on Solid Waste.

Three articles focus on different soil aspects: the fifth article analyzes the soil runoff in Ilha Solteira/SP caused by inadequate management that generated severe degradation; the eleventh article determines the soil use capacity in Francisco Beltrão/PR through the factors of analysis of the Universal Soil Loss Equation - USLE, proposing the readjustment of the soil use in order to avoid erosion losses; and the twelfth article uses the same USLES system to study the soil erosion already existing in the same municipality of Francisco Beltrão/PR.

Within the water theme, the sixth article presents a complete analysis of the spatial-temporal distribution of rainfall in the Abiaí river basin/PB using the Rainfall Anomaly Index (RAI) and the Surfer 8.0 software as a tool for vectoring climatic variables; the seventh article characterizes residential gray water and the efficiency of the treatment of this type of effluent through the use of a septic tank followed by horizontal runoff wetland; the eighth article brings sustainable techniques for the reuse of non-potable water in buildings (gray water and rainwater) contributing to the reuse of this essential resource; and the thirteenth article characterizes the water users of the Rio Formoso/TO watershed, which were identified as being mainly agricultural.

Two papers study the properties and characteristics of different species: the ninth article chemically characterizes sixteen accessions of the Maniçoba, a caatinga plant with forage interest; and the tenth article characterizes the fruits of bilimbí, also known as Japanese lemon, an interesting fruit present in the municipality of Araguatins/TO.

Finally, we honor Prof. Dr. Marcelo De Julio, who in this issue co-authored the eighth article (Study of Sustainable Techniques for Use of Non-Potable Water in Buildings). Professor De Julio, a civil engineer from the Federal University of São Carlos, served as Chief of the Civil Engineering Division of the Aeronautical Technological Institute (ITA) and died in August 2015. Our sincere wishes of solidarity for his family and our gratitude for his Cooperation with this Journal.

Good reading to all!

Profa. Ursula Luana Rochetto Doubek

Editorial Council