GAINA MOUNTAIN

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Abstract: It is known as a place for a great deal. Situated at the height of 1500, it is part of the Apuseni massif, where the counties: Alba, Arad, Cluj, Bihor and Hunedoara meet. Tourists are attracted by the beauty of the place, the annual fair that has an old tradition and legends of the place. His paper identifies sources of pollution with ionizing and non-ionizing radiation in a mountainous tourist area.

Keywords: mining with heavy metals, radio antennas, Mount Gaina.

There are three legends in the area of Gaina Mountain:

Tulnicarese on Mountain Gaina

a) Parents came to the fair to sell or buy products or even exchange products. But the most expensive product was unmarried young people, especially girls. If the youngsters liked, and parents agreed, the participants were greeted by songs, play and food. By the end, the girl was placed on a plank at the end, and on the other end the dowry was collapsed until balancing.

Tourists at the Girls Fair on the Gaina Mountain

b) The inhabitants of Vidra de Sus, most of whom worked in the golden baths of the Bihor Mountains. On the top of the mountain sat a golden chicken that was climbing his eggs. People tried to catch it, but the chicken ran away with gold all the way to the earth, and it did not go outside, but no gold was found anymore.
c) In the area was beautiful and rich fairy. The fairy had a chicken that made golden eggs. Those eggs were given to poor and good-looking girls who wanted to be married. But some young men from Vidra dressed in women and went to the fairy to steal the chicken. But in their haste they escaped the basket of golden eggs that rolled into Aries, but they hid the chicken in the Abrud Mountains.

The fair is documented since 1816, but its origin is far removed. The program started in the town of Avram Iancu on Saturday and on Sunday ended on the mountain.

In a few words, these aspects are very beautiful. Only the practice of tourism in the area raises some problems of exposure of tourists to different forms of irradiation:

A. Exposure to ionizing radiation. Regardless of which valley is going up, mines for radioactive ore can be found. Mining heap, abandoned mine galleries, mine drainage, galley collapses, collapsing awnings, all are generating radionuclides. Exposure is externalized by direct or internal irradiation through water consumption in some springs and inhalation of radioactive, radon and thoron gas. These gases, during the weather lull, flood the adjacent valleys. Tourists also visit the Snail Hill, Pisoaica Falls, some want to see the Hill of the
Church where it was the Soviet colony of soldiers and civilians involved in the mining works of the Sovrom Kuartit period.

B. Exposure to non-ionizing radiation. Over the past decade the hill has been occupied by several pillars that have antennas for GSM telephony, TV translators and other telecommunication devices. The high density of tourists equipped with mobile phones is over 98%. In the area, the radiation level with electromagnetic waves far exceeds the accepted norms. The measured values for each component of the equipment are relatively acceptable, but their sum is high. The risk of irradiation increases near this equipment. However, it is worth visiting these places with great care and risk.

Popular manifestations and traditions – and the antennas

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