PROTECTION AGAINST ELECTROMAGNETIC RADIATIONS GEO-COSMOPATHOLOGY

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Abstract
People have been aware of the consequences of electromagnetic radiations since the earliest times of their existence. This phenomenon resulted mainly from the natural source of those radiations: cosmic and geo-pathogenic ones. The cosmic sources that have been scientifically proved and presented in published material are the three cosmic grids, as well as the cosmic S swarm and the cosmic S strip, of which the influence on the Earth is in a dotted pattern. Other sources of radiations are the geo-pathogenic ones, resulting from many geological anomalies which are observed as linear. All of them were, at first, detected by the instinct of certain animals but also by certain devices. One of the preventive measures was the careful choice of the location where each building was to be erected. Nowadays, when the electromagnetic radiations come from numerous technological sources, there is an increased necessity of protection against them. The devices actually used for protection against the electromagnetic radiations can be divided into three groups as follows: devices protecting by transformation, those protecting by reflection and the ones protecting by placebo effect. The transformation of the field, achieved by the device, provides for protection by transformation while the displacement of the field ensures reflection. Yet some products are supported only by aggressive marketing and not by any scientific or technical proof. They use false facts unprofessionally obtained from associations. Those devices may incite placebo while resulting in a criminal act committed by their manufacturer. Therefore, the cooperation of education, science and law is necessary in order to provide for safe protection against the electromagnetic radiations.

INTRODUCTION
People have been aware of the existence of electromagnetic radiations since their very existence. In ancient times, radiations originated from natural sources: cosmig and geopathogenic. The cosmic sources that have been scientifically researched and proved are the three cosmic grids, the cosmic S swarm and the cosmic S strip, the latter two sources a dot-like influence on Earth. Other influences like the Sun storms, also affect our planet, as radiations that is caused by the eruptions of the Sun surface; they appear occasionally and have some negative influence on the living beings.

The natural sources of radiation include the geopathogenic ones caused by various geological anomalies etc. They all have an extremely negative effect on the health of the organisms exposed to them. The geopathogenic radiations are mostly linear.
Detection

Having become aware of the danger of the electromagnetic radiations, people tried to find some technological appliance to detect them. They started to use diverse methods, including the observance of the animals’ instinct, following the deterioration of animal flesh placed on certain locations etc. Besides these analyses, people used some traditional instrument of detection. The detection of electromagnetic radiations is called divining. As a scientific discipline, divining belongs to geobiology and is the basis of present-day detection. The detection of the geopathogenic fields is one of the first detections of Earth in which people used instruments.

Especially in search of underground waters, and than for location of the construction of their houses, people were always thinking about finding some sophisticated methods and techniques for their precise identification.

The first devices used were simple, and they were perfectioned and successfully used later. This type of devices are radiesthetic or traditional instruments, which are the predecessors of the present-day modern instruments.

Nowadays, modern geo-physical instruments with satellite support are used besides the traditional ones.

This modern method of detection enables for fast and precise location of underground waters for people’s needs, but also for the detection of other geological anomalies creating dangerous electromagnetic fields.

Material and methods

Technical features of some natural sources of radiation

Cosmic sources of radiation

As a consequence of the damage done to the ozone layer, there are so called cosmic (ozone) holes, which cover large amount of space on the Earth. The ultraviolet rays can easily come through them. If people are exposed to those ultraviolet sun rays, there are more chances to get skin burns and skin cancer. Beside these cosmic or ozone holes, there are other sources of electromagnetic sort, known as radiations, which come from the cosmic nets.

The planetary system with its existence exercises certain interplanetary reflections, thus creating nets above the Earth’s ozone layer. The cosmic nets are different from one another because of the distance between the lines and the parallels, from which they are made of, and their width. With the intersection of the lines and parallels, the so-called knots are created. The knots that don’t get through the ozone layer represent passive knots.

The cosmic sources for radiations (knots), which manage to get through the ozone layer represent active knots. They can be identified on the earth and they represent serious danger to the living world. The diameter of the knot depends on the width of the lines that form the cosmic net, and with that the diameter of the effect made by the cosmic radiation over the earth can be identified. Only three cosmic nets are detected so far, which are harmful for the living world.

The three nets carry their authors names:

a. The net of Ph.D. Manfred Karry 300 cm x 300 cm x 50 cm;
b. The net of Ph.D. Hern Hartman 250 cm x 200 cm x 25 cm;
c. The net of Ph.D. Stojan Velkoski 100 cm x 90 cm x 10 cm. Fig.1.

While Space swarm of Stojan’s Cosmic Swarms (the SCS) consist of the following: two rings in the form of an ellipse, each of them containing about 42 points, 400, Fig. 2.
- Geopathogenic radiations are most frequently caused by faults, cracks, ore concentrations, underwater waterflows etc. Fig. 3 to 5. They act as waves and disturb the constant geomagnetic field and the polarity on a cellular basis thus menacing people’s health.

- **Intensity of GPR**
  - If the GPR comes from an underground floor, its intensity will depend on:
    - The width of the underground flow;
    - the height of the water gauge;
    - The velocity of the current;
    - The depth;
    - The geological structure.
    - If the current is faster, if its capacity is bigger and if it is shallower than 100 m, its intensity of the GPR is more prominent.
  The intensity of the GPR resulting from other geological anomalies is determined as according to the following:
    - the width of the anomaly;
    - the depth of the geological anomaly;
    - the intensity of the resistance created on the radiesthetic instruments, which leads to the assessment of whether the intensity of the GPR is stronger or weaker;
    - according to the value of the electromagnetic field, measured by sensitive and accurate geophysical instruments.
-Technical sources of radiation

The technical radiation sources are: power transmission lines, transformation stations, emitters, household or office appliances etc.
All these factors influence the exchange of the currents on the cellular level and disbalance it due to the disturbance of the function of the sodium-potassium pump, followed by a series of negative consequences to the health and life of the exposed individual.

Legal regulations

The technical sources of radiation, caused by the above mentioned sources: the transmission lines, emitters, etc. Are nowadays being erected without taking care of the health of people and animals. One such case is the erection of a long-distance power line in the village of Selce, near Prilep. The inhabitants started to feel serious health consequences and in 1998 initiated the Court process P.no. 759/98 with the EVN Electric Power Company. The process has not yet been finalized despite the expert’s confirmations of the danger brought by the line.

Knowing the danger of electromagnetic radiations from technical sources, the international institutions have established legal regulations and standards of the allowed intensity thereof.

Pursuant to the ANSI standard, C95.1-1999 of IEEE (USA), the International Committee of Non-Ionizing Radiation Protection (ICNIRP), and the American Conference on General Industry Hygiene (ACGIH), the permitted radiation levels, that is, the maximum allowed time of exposure to radiations depend on the frequency of the radiation source (Fig. 6-7).

\[ E_{\text{perm.}} = 0.62 \text{ kV/m}, \]
\[ B_{\text{perm.}} = 2,00 \text{ mG}, \]
\[ RF_{\text{perm.}} = 0.10 \text{ mW/m}^2 \]

In this case, for frequencies of 900 MHz to 300 GHz (this area includes the antenna telecommunication emitters), for the civil population, in working premises. The allowed level of radiation for an electric field amounts \( E_{\text{perm.}} = 0.62 \text{ kV/m}, \) for a magnetic field it amounts \( B_{\text{perm.}} = 2,00 \text{ mG}, \) and \( RF_{\text{perm.}} = 0.10 \text{ mW/m}^2 \) is the norm for radio and microwaves. According to those standards, the allowed levels for an industry frequency of 50 Hz are: for an electric field \( E_{\text{perm.}} = 5,00 \text{ kV/m}, \) and for a magnetic field \( B_{\text{perm.}} = 1.000 \text{ mG}. \)

The manufacturer of the instrument Trifield Broadband Meter from the USA concluded, as a result of his year-long researches that biological effects can be expected upon exposure to radiations with the following intensity: over 3,00 kV/m for an electric field, over 1.000 mG for a magnetic and over 0,10 mW/m² for radio and micro waves.
Legal protection is increasingly sought for against this modern aggressor nowadays. The international institutions have prescribed standards on the permitted stay in an area influenced by technical sources of radiation, as follows:

- unlimited – for the intensity of up to 5 kV/m;
- up to 180 min – for the intensity of 5-10 kV/m;
- up to 90 min – for the intensity of 10-15 kV/m;
- up to 10 min – for the intensity of 15-20 kV/m;
- up to 5 min – for the intensity of 20-25 kV/m;
- access not allowed without protection for the intensity of over 25 kV/m.

These standards applied by EU are not always respected. But it has to mentioned that not all individuals suffer the same health consequences even on a prescribed amount of radiation. Some are more and some less sensitive to electromagnetic radiations, and it can be concluded that the standard values leave a different impact on different people. As for the legal protection against natural radiation sources the Skopje GAPE Institute suggested change and amendment to the Law on Construction. The suggestion was a subject of a Parliament discussion, in June 2009, when it received a positive opinion and was voted for.

**Results**

Since the beginning of detection people started to consider the possibilities of protection as well, firstly using hay, pitch oils, plastic foils, metal sheets, spirals etc. One of the sources of correct indications was the prevention upon the choice of a building location. Diverse appliances for protection against electromagnetic radiations have been in use especially since the 80ties of last century. Those appliances can be divided into five groups: improvement, reflection and neutralising-transforming ones.

Nowadays, when the specter of electromagnetic radiations includes a large number of different frequencies from numerous technical sources, there is a necessity of appropriate protection against electromagnetic radiations. According to their function these appliances can be divided into a) transformational, b) reflective, c) frontal protection appliances, d) appliances with favourable effect and e) placebo effect appliances.

The a) group (transformational appliances) includes those that neutralise and transform the electromagnetic radiations thus changing their intensity, especially those of up to 300 MHz. This scope includes the natural electromagnetic radiations. Also they can change the structure of the field, for example: from electric into magnetic one, as are the well known BIO-SPH Neutralizers-transformers whose functions have been confirmed from both technical and clinical aspect. (Fig. 8-10) ([http://www.soncevzrak.com/](http://www.soncevzrak.com/)).

| Figure 8. Sketch of the basic elements of the BIO-SPH | Figure 9. Protection of farms with BIO-SPH | Figure 10. One of the shapes of BIO-SPH |
The influence of this technical solution has the characteristics of the appliance from the d) group (improvement) and the results can, besides by empirically measurement instruments, mbe achieved also with technical measuring appliances.

The b) group of means of protection against electromagnetic radiations includes spirals, foils, printed plates, metal sheets etc.

This type of reflecting protection appliances have the capacity to reflect a certain radiation frequency, that is, to relocate it laterally from the protective appliance to a distance from several cm to 1 or 2 meters. The results are accessible both empirically and by measuring instruments. This method is not always humane as it endangers another area that has previously been safe.

This group includes the appliances that use electricity and are sometimes considered as ideal for protection, as the change of the field is registered immediately. But it should be mentioned that the results come from other technically caused frequencies, reflecting or pushing away the existing field. The control measurements from the previous field indicate lower intensity, but we do not register the newly created field which is technically caused and can be more dangerous than the previous one.

The c) group includes protective appliances that stop the field. Such are the polarized nets and spirals specially constructed at the IGAPe institute in Skopje. (http://igape.edu.mk/) and accompanied by an Institute certificate. This method is more practical as the nets are laid into the basic plate and into the roof plate during the very process of construction of the building. It can also be applies on the walls if the building is in the immediate vicinity of a power line, a transformation station or an emitter (Fig. 11-14).
The fourth d) group of protective appliances include only those with improvement influence, as are appropriate forms and colours, as is the old Chinese feng-shui tradition. Such methods do not reduce the intensity of the field but only influence positively on the people in the respective area.

The fifth e) group of protective appliances includes those which result from marketing without any scientific or technical guarantees. They are frequently supported by unrealistic and unprofessional facts issue by associations etc. Their inefficiency is often concealed into other forms of a pyramid etc. It may bring certain improvement to certain users, but only for a short time and mostly due to placebo effect. Such products are even sued for fraud. Such was the case of a product launched in 2006, when the IGAPE expertise, a criminal procedure of K.no. 858/08 was initiated against the company at the Criminal Court in Skopje. Due to such phenomena, experts in 2007 published the following paper: http://igape.edu.mk/Dokumenti/TECHNICAL%20DEVICES%20FOR%20PROTECTION.pdf.

Discussion

These researches are based on 25-year old work including 8,000 heads of cattle, 20,000 people and numerous scientific and technical activities.

Conclusion

All this leads to the conclusion that electromagnetic radiation is detrimental to the organisms exposed to them, that the legal norms do not provide the sufficient security and are not respected everywhere and always, that protection by approved and recognized technical appliances is necessary, as well as control of the protection measures and legal procedures if there is any basis thereto. It is necessary to educate people and amend the legal regulations by subjects regarding electromagnetic radiations.

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