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FACULTY OF LAND RECLAMATION AND ENVIRONMENTAL ENGINEERING OF BUCHAREST

CHAIR OF ENGINEERING, TECNOLOGY AND TOPOGRAPHY

NEW ara®™
super magnetic
water treatment systems

COMMENT ON THE EFFECT OF MAGNETIC FIELD ON THE WATER IN CONCRETE

Translation from the original Romanian

March 1996

REPORT

The effects of magnetic field on the water have been observed experimentally about 40 years ago, while the applications have been extended in recent years, especially in USA, Japan, Germany and Russia.

The theory of the phenomenon is not yet well fundamental, but searches has highlighted the effects of the action of the magnetic field on the physical-chemical characteristics of the water, effects which are reflected in different fields of work with the use of New Ara ionic accelerator.

Relevant results were obtained in the use of water magnetic in thermotechnics through the effect of reduction of the deposit of scale in systems, irrigation for crops, where growths of the plants were found more rapid and collected increased, in purification and treatment water and in the field of building materials.

Research carried in the laboratory of construction materials in the context of our Faculty have shown that the use of water magnetic has led to increased compressive strength from 12% to 25% and resistance to bending by the extension from 10% to 18%.

Since these results are encouraging, but insufficient to know the influence of the magnetic water on the structure and properties of the concrete, we intend to search the influence of water magnetic even above some properties of the cement and also on the structure of the concrete properties.

Headmaster

Prof. Dr. Eng. A. Gazdaru

Holder discipline construction materials

Eng. Gabriela Rosu

Bucharest, 1996.03.22