

BIO-ENVIRONMENTAL PROTECTION, THE PRESENT AND NEW VISION

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The natural environment can be distinguished by its circulating and regenerative character, whereas the manmade environment seems to have an essentially linear character. The existence of the manmade environment is conditioned by the steady intake of raw materials, energy and production of gases, sewage and garbage. The process of destruction of the environment can be compared to the process of increasing entropy known from thermodynamics. Permanent consumption of nature's goods and forces causes irreversible increase of entropy. Decreasing the rate of entropy and prolonging the existence of the world is a great challenge for world science and world management.

There remains also a question of whether it is possible to create a manmade regenerative environment following the example of the natural environment. The answer seems to be positive, although a practical solution of the problem is not simple. It is necessary, then, to undertake the study of regenerative environment, and particularly the manmade regenerative environment. An elementary unit of such an environment should initially be the eco-house and, in the future, the eco-city. Contemporary ecology should not concentrate on repairing damages caused by civilizational development. Rather, it should concentrate on creating ecosystems and organizing the biosphere according to rules discovered and formed by ecology.

Dr. **Krzysztof Korzeniewski**, a former vice-Rector of the Pedagogical University of Slupsk, is presently Professor of Marine Chemistry and Marine Environmental Protection at the University of Gdansk, and chairman of the Polish National Committee on Oceanic Research. He was principal investigator for many research projects, and has written four books and published over 100 papers on the topics of air pollution, chemical oceanography and environmental protection. He serves as a member in several professional societies and organisations some of which are: Societas Internationalis Limnologiae, the Polish Chemical Society, the Polish National Agency of Environmental Protection and the Polish Hydrobiological Society.