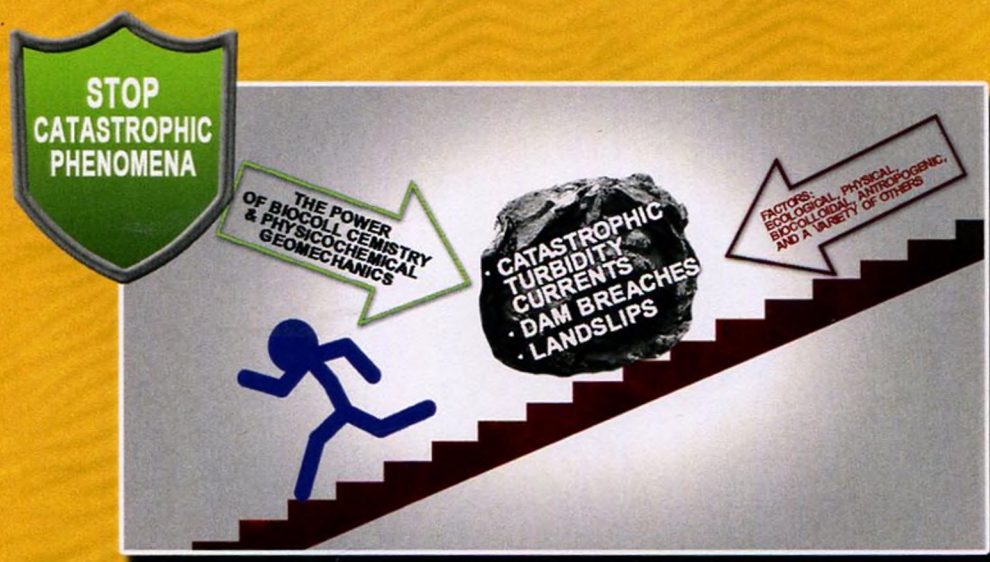


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NANOCHEMICAL, NANOSTRUCTURAL AND BIOCOLLOIDAL ASPECTS OF TRANSFORMATIONS IN DISPERSIONS OF IRON- ALUMINOSILICATE MINERALS



NATIONAL ACADEMY OF SCIENCES OF UKRAINE
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It was considered the modern ideas of colloidal and biocolloidal nanoscience concerning complex transformational processes in widespread dispersions of iron-aluminosilicates. It was shown for the first time that they influence on catastrophic phenomena in marine turbiditic-pelitic sediments and soils consisting of iron-aluminosilicates. The fundamental study results of nano- and microstructure transformations of disperse iron-aluminosilicate compositions are presented. And it was established the possibilities of their application in: constructing of protective structures; balneology and medicine; metallurgy; development of the problem of saving the ecological balance in the sea hydrosphere; developing the new branch of science — biocolloidal marine geoecology.

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