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Alexander Trofimov

International Scientific Research Institute of Cosmic Anthropoecology, Russia

Helioclimatopathology - The 40th anniversary of interdisciplinary studies in sciences of space, Earth and man

In 1975, in Novosibirsk, on the basis of Siberian Branch of the Academy of Medical Sciences, academician V.P. Kaznacheev (1924-2014) organized laboratory of helioclimatopathology of ICEM. For a long time (until 2010) it was the only in the USSR, in Russia and in the world academic scientific department, who studied the influence of heliogeophysical events and climate change on human health. The laboratory for the first time in the world has carried out simultaneous investigations in different geographic locations under the state program "The Sun. Climate. Man" in the periods of maximum and minimum solar activity, expedition work in the Arctic (Norilsk, Dixon), in the areas of direct extreme impact of solar corpuscular flows on a man. In the laboratory of helioclimatopathology the hypo-geomagnetic installation, which is the only in the world, has been created and tested. The installation simulates conditions of geomagnetic deprivation and biotropic consequences of the going of a man and mankind into the "open space" - space, unprotected by the magnetic field of the Earth. From 1992 in Spain, Sevilya, after the model demonstration at the World Exhibition "Expo 92" of computer-forecasting technology "Helios" to assess the prenatal formed risks of heli dependent diseases, on the initiative of Dr. J.E. Domingues a new scientific-medical direction "Cosmopathies" occurred and it is successfully developing. In 1994 a new scientific advanced post of Observers (by Carter-Tsiolkovsky)- International SRI of Cosmic Anthropoecology, located now in Novosibirsk Academgorodok, took the baton of heliobiological research, beginning in the XXth century by Russian professor A.L. Chizhevsky. In the Institute, 5 scientific heliobiological expeditions to the Far North, the middle latitudes, the Altai and the tropics have been held during 20 years. The effective non-medicinal helioprotective means, protecting a man from the Sun- induced genetic mutations, decreasing risks of heli dependent diseases, smoothing metecotropic reactions on changes of weather and climate and also reducing the rate of aging, have been developed, patented and tested.

Biography

Alexander Trofimov has completed his MD (Doctor of Medicine) in 1998 from Siberian Branch of Russian Academy of Medical Sciences. During many years he was (until 2010) Chief of laboratory of Helioclimatopathology of Scientific Center of Clinical and Experimental Medicine. From 1994 and till now he is the Director of International Scientific Research Institute of Cosmic Anthropoecology. He has 7 patents, published 6 monographs and more than 65 papers in reputed journals.

isrica2@rambler.ru

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