

Abstract

Idea title: Naval hydroponic system as a reflection of humanization of life and work spaces in marine habitat.

The extreme living spaces of modern man illustrate the loss of balance between the *Biosphere*, created by the slow process of evolution, and the *Technosphere* shaped by our civilization. Emphatic examples of such distraction is a daily life in places such as naval ships, oil rigs, drilling platforms and floating refineries. Although existing conventions regulate conditions under which they work, they are created mostly to maintain safety of a ship - a valuable working tool. Due to that a psychophysical condition of the crew is not a decisive factor in ship design, as far as economical and safety factors are considered. This forces man to adapt to the machine - not the other way around. It remains a fully industrial environment, providing the space necessary to perform work, but enabling just a minimum of strength recovery for a crew, required to continue the indicated tasks.

My proposal of the naval hydroponic block (NHB) is one of the possible tools for "humanizing" marine habitat. It allows the introduction of biologically active tissue into the previously inanimate industrial world.

As a comprehensive system solution, integrated with the wall lining panels, it meets all the standards by which ships are currently designed. It is manufactured industrially and using generally available marine technology. The implemented solutions would allow for execution of several finishing versions and its multiplication in one panel/room extent.

NHB could be widely used in marine environments. Thanks to that, it becomes a testimony to the "ecological modernity" of the ships, thus incorporating modern design trends.