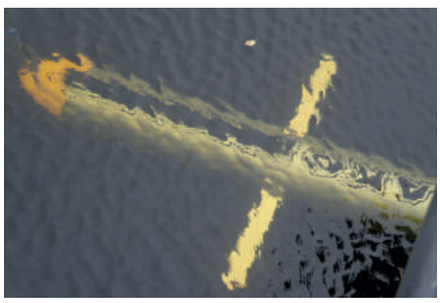
AUTONOMOUS UNMANNED UNDERWATER VEHICLE OF HYBRID TYPE “MAKO”

Maxim V. NENASHEV, Doctor of Technical Sciences, First Vice-Rector and Vice-Rector of Academic Research

OBJECTIVES
Oceanological research, underwater monitoring, search, identification, reconnaissance, monitoring and inspection of underwater civil and military targets, underground mine warfare and countermeasures

AREAS OF USE
Oceanology, Hydrometeorology, Military Industry



The device has a torpedo shape with wings and locomotors. It includes measuring, photo, video, hydroacoustic, navigation and other equipment, as well as a battery and a hydraulic system for changing buoyancy. The device is characterized by easy deployability, a high degree of navigation and work autonomy and low noise of movement. It can reach speeds in the planning mode up to 2-3 knots, dive to a depth of up to 2000 meters and work in shallow water and under ice.

PECULIARITIES
The development presents an innovative system for changing buoyancy, allowing the device to move both in the mode of glider (planning) and with the switched on locomotors.

CONTACTS
8-961-384-84-84
8-927-603-10-30
a-mochalkin@mail.ru

CORE COMPETENCIES

#GLIDERS, AUTONOMOUS UNINHABITED VEHICLES, #OCEANOLOGY, #CHANGING BUOYANCY SYSTEM