

# СУДОСТРОЕНИЕ

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**ПРОЕКТИРОВАНИЕ СУДОВ**

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**СУДОВОЕ  
ОБОРУДОВАНИЕ**

**ТЕХНОЛОГИЯ  
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**ИСТОРИЯ**



# SUDOSTROENIE 6 2017

## /SHIPBUILDING/

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### AT SHIPBUILDING YARDS

#### NAVAL SHIPBUILDING

***Pospelov V. Ya. Five years of activity. Board Council of Russian Military-Industrial Committee on Shipbuilding.***

The author narrates about establishment of Military-Industrial Committee in Russia and its activities in various periods of time, subsequent formation of affiliated Council on Shipbuilding and scope of solved issues to maintain and develop the Russian Navy.

**Keywords:** shipbuilding, armament, ship power plants, government defense order.

***Sherbina N. Ya. People and ships in «golden age» of nuclear-powered ships.***

This article tells about design, construction and trials of leading nuclear-powered K-38 submarine (2nd generation, p. 671).

**Keywords:** nuclear-powered submarine, design, construction, trials.

#### CIVIL SHIPBUILDING

***Khaustov A. N. Passenger twin-hull vessel «Griphon».***

They author hereby describes the innovation passenger twin-hull vessel jointly design by CDB «Neptun» and JSC «Sredne-Nevisky shipyard».

**Keywords:** twin-hull vessel, high-speed passenger vessels.

#### SHIPBOARD EQUIPMENT

***Kurnikov A. S., Mizgirev D. S., Mikheyeva T. A. Shipboard drinking water systems using activated oxidizing technologies.***

This article is devoted to solution of topical issue such as advancement of drinking water preparation and treatment system at sea ships and river-sea-going ships. The authors provide detailed analysis of existing shipboard drinking water systems, water decontamination technologies and application of activated oxidizing technologies for the same. Design of drinking water preparation and treatment system onboard the ship has been proposed and construction recommendations thereof have been given.

**Keywords:** drinking water preparation system, activated oxidizing technologies.

#### SHIPBUILDING ORGANIZATION AND TECHNOLOGY

***Alferov V. I., Mikhailov V. S. Estimating impact of technology factor on hull structures bearing capacity.***

Finite elements method and thermoplastic solutions have been used to estimate the impact of residual welding stresses and deformation on bearing capacity of flat panel and stiffened cylindrical shell. Application of proposed method allows to calculate strength and assurance factor for hull structures considering the technology factor.

**Keywords:** strength, hull structures bearing capacity, welding deformations and stresses.

**Trubetskoy N. K. Intensification of automated assembly and welding lines for flat sections.**

The author hereby describes flat section assembly and welding lines, equipment used at different line segments, way to intensify existing lines and optional intensification by the example of line at «Zvezda» shipyard.

**Keywords:** automated welding and assembly line for flat sections, welding equipment.

### **SHIPYARD RETOOLING**

**Pankratova S. Yu., Pozdnyakov V. I. Measures to minimize the impact on water bio resources during dredging.**

This article reviews both direct and indirect impact on water bio resources during construction and exploitation of shipbuilding facilities and measures to preserve bio resources and their environment during dredging.

**Keywords:** environmental protection, water bio resources, environment, dredging

### **SHIPREPAIR AND UTILIZATION**

**Ilyukhin V. N., Klyachko L. M., Rabinovich Yu.I. System approach to purification of Russian inland water areas.**

Surveys of decommissioned ship exploited in 14 inland water areas of Russia prove that current ecological situation is critical. One should undertake urgent measures on disposal of these ships. Such measures are to be complex and driven by state authorities.

**Keywords:** ecology, ship disposal, sunk ships, lifting.

### **PERSONNEL TRAINING**

**Ronnov E. P., Lyubimov V. I. Training specialists of shipbuilding. Topical issues.**

Since Russia entered the Bologna agreement, Russian higher educational institutions adopted training on grouped collateral specializations instead of conventional specialization-wise training. In such complex industry branch as shipbuilding, this reduced the expertise level of trainees due to reduction and removal of many special disciplines as well as shortening of time for practice training and graduation work.

**Keywords:** nuclear-powered submarine, personnel training, shipbuilding, practice training, specialization.

### **INFORMATION SECTION**

**Results of exhibition «NEVA-2017». 5th meeting of marine architects of STO in the name of Krylov. Aleksandrov V. L. Honored Admiraltyman – N. M. Luzhin. Admiral F. P. Litke. 220 years anniversary. Andrienko V. G. Named Litke on board. Baskakov I. Ya. Walking in museum of JSC SC «Almaz». Foreign information. New books. Congratulations with 100th issue of book «Gangut». Rabazov Yu. I. Let's discuss it. Blitz news. Ganjina T. A. Sevmozavod has commenced construction of floating crane «Sevastopol»**

## **HISTORY OF SHIPBUILDING AND FLEET**

### ***Klimovsky S. D. Military transport of «America» class.***

This article tells about lesser-known construction of «America» class ships for Russian Navy in the 2nd half of XIX century.

**Keywords:** history of shipbuilding, history of fleet, military transport, shipbuilding.

### ***Vasilyev D. M. Medical service vessel «Narodovolets».***

The author hereby reviews the story of medical service vessel «Narodovolets» ended with wrecking in summer of 1920 and subsequent lifting thereof.

**Keywords:** history of fleet, naval shipbuilding, medical service vessel, ship lifting.