

FINAL PROGRAMME

Second International Conference "NAVY AND SHIPBUILDING NOWADAYS" NSN'2001

December 4 - 6 St.Petersburg, Russia

PLENARY SESSION 1

I.G.Zakharov, RF MD First Navy Research Institute, Russia

The Modern Condition and the Main Tendencies of the Development of the Ship's Composition

Yu.A.Sukhachev, MD RF State Rescue and Diving Research Institute, Russia

Political, Technical and Economic and Organizational Aspects of NATO-Russia Cooperation on Search and Rescue at Sea

V.N.Ilyukhin, MD RF State Rescue and Diving Research Institute, Russia

Perfection of Submarine Search and Rescue System

V.I.Karev, SMPCSRA of Russia, Ministry of Transport of RF (SMCSRA of Russia), Russia
Salvage and Rescue at Sea and Elimination of Marine Accidents Consequences.

R.Bronsart, S.Gau, Institute of Maritime Systems and Fluid Engineering, University of Rostock, Germany

Collaborative Design and Production in Shipbuilding Networks

V.V.Voitetsky, V.M.Korchanov, V.Z.Sirotnikov, S.N.Surin, Federal Research & Production Centre "AVRORA" Corporation, Russia,

E.A.Arkhangel'sky, N.G. Kuznetsov Navy Academy, Russia

The Main Creation Principles of Integrated Control Systems of Technical Facilities for Ensuring Safety and Survivability of Ships and Vessels



Section A SAFETY PROVISIONS IN NAVAL AND COMMERCIAL SHIP DESIGN AND CONSTRUCTION. ECOLOGICAL ASPECTS

V.I.Burak, G.V.Vitushko, G.A.Tyurin, Krylov Shipbuilding Research Institute, Russia
Safety as One of High Priority Problems when Naval Ships Designing

S.A.Rudenko, SUE "Zelenodolsk PDB", Russia
A Radical Step Towards Safe Ships' Navigation

V.G.Bakhmat, Naval Engineering Institute, Russia
Valuation of Efficiency of Constructive Fire-Prevention Guard of the Ships

Yu.L.Levkovsky, Krylov Shipbuilding Research Institute, Russia
Propeller Noise Experimental Investigations in the Cavitation Tunnels

L.A.Mukhina, A.Yu.Yakovlev, Krylov Shipbuilding Research Institute, Russia
Calculation of Forces on Propeller at Vessel Manoeuvring

I.G.Frolova, S.V.Kaprantsev, A.V.Pustoshny, Yu.S.Timoshin, Krylov Shipbuilding Research Institute, Russia
Calculation Estimation of Critical Propeller Cavitation Number

*L.I.Vishnevsky, M.A.Mavlyudov, D.U.Sadovnikov ,
Krylov Shipbuilding Research Institute, Russia*
V.F.Zubakhin, Yu.K.Yakovlev, RF MD First Navy Research Institute, Russia
Experience of the Creation of the Propeller with Shifted Blade Connection on the Hub as Applied to the High Speed Craft with Underwater Wings

A.I.Bronsky, FSUE CRIST, Russia
Propeller Nozzles Design as a Part of Ship Accidents Prevention

V.N.Anosov, Krylov Shipbuilding Research Institute, Russia
Spray Formation, Icing and Development of Spray Suppression Skirt for Hovercraft "Geran" and "Zubr" Type

A.N.Pinegin, CDB ME "Rubin", Russia
Consideration of Necessity to Provide the Specified Level of Initial Stability When Determining Submarine Displacement by Differential Method

V.M.Korchanov, V.I.Lyapin, A.G.Serov, The Federal Scientific and Research Center, SUE "AVRORA" Corporation Science and Production, Russia
Coordinated Automatic Control of Ship Motion with Controllable Hydrofoils and Interceptors

R.Bronsart, U.Cantow, V.Petkov, Institute of Maritime Systems and Fluid Engineering, University of Rostock, Germany
Integration of a Class Rule Server in the CAE-system Environment for Ship Design

N.P.Lebedeva, A.P.Lebedev, Krylov Shipbuilding Research Institute, Russia
The Safety of Ship Manoeuvring in Wind

A.K.Zavialov, N.A.Sergievsy, Krylov Shipbuilding Research Institute, Russia
Development of Turbulent Wake Behind a Body of Revolution with Angle of Attack in the Stratified Fluid

V.N.Avdeev, A.V.Eibozhenko, S.I.Krolenko, Naval Engineering Institute, Russia
Non-stationary Hydrodynamic Wing Characteristics in a Trial Tank Wave Flow

H.Polezhaeva, W.Malinowski, Lloyd's Register of Shipping, United Kingdom
Enhanced Design of Aluminium Structural Details

*S.N.Ryumin, G.F.Demeshko, St.Petersburg State Marine Technical University, Russia,
A.V.Shlyakhtenko, CMDB "Almaz", Russia*
The Analysis of a Weight Minimization Problem of a High-Speed Ship Hull

G.V.Boitsov, M.A.Kudrin, Krylov Shipbuilding Research Institute, Russia
Fatigue Strength Estimation for Ship Hull Structural Details

A.I.Dulnev, V.I.Fedorov, Krylov Shipbuilding Research Institute, Russia
Probability Models of a Ship Structures Damage by Splinters Generated due to Pressure Vessels Explosion Accidents

L.P.Gavrilyuk, FSUE CRIST, Russia

Development of Methods Providing Certification Rigidity of Submarine Hulls, for Example, at Afloat Repair Works

A.I.Shitov, A.M.Puzyrev, Krylov Shipbuilding Research Institute, Russia

One of Modern Methods of Increase of Local Strength and Resource of Pressure Hulls of Underwater Devices

V.B.Avakov, "The Special Boiler Design Bureau " JSC, Russia

Ecologically Clean Power Plants on the Basis of Fuel Cells

V.P.Zimin, R.A.Ivanov, A.M.Makhmudov, V.V.Timofeev,

Krylov Shipbuilding Research Institute, Russia

Ways of Maintenance of Ecological Safety at Operation of Ship's Gas Turbine and Diesel Engines

E.S.Kochanov, Yu.S.Kochanov, Krylov Shipbuilding Research Institute, Russia

Physical Processes in Water/Contamination Sensors for Fuel and Lubrication Oils

Yu.V.Guriev, P.I.Shchukin, Naval Engineering Institute, Russia

I.V.Tkachenko, St.Petersburg State Marine Technical University, Russia

Mathematical Modeling of Viscous Flows for Pipeline Shaped Elements Design

A.Yu.Andreev, Krylov Shipbuilding Research Institute, Russia

Theoretical and Experimental Research of Radar Reflectors for Ships

S.A.Petrov, V.F.Sinyakov, RF MD First Navy Research Institute, Russia

The Problem of the Nuclear Security of the Navy's Ships

G.V.Egorov, Marine Engineering Bureau, Ukraine

Safety Control in Carriage by Sea a Spent Nuclear Fuel

G.V.Egorov, Marine Engineering Bureau, Ukraine

Risk Theory Based Minimization of Transport Fleet Influence on the Environment

N.L.Kuchin, Yu.A.Platovskikh, S.M.Rubanov, I.V.Sergeev,

Krylov Shipbuilding Research Insitute, Russia

Modelling of Radioactive Contamination Processes in Bay after Nuclear Accident

I.I.Chakharian, RF MD First Navy Research Institute, Russia

Salvaging Problems and Safety Provision at Sea

S.A.Komarov, A.B.Maizel, N.D.Nikitina, Krylov Shipbuilding Research Institute,

*Russia***Vessels Noise as Marine Ecosystem Influence Factor**

B.A.Startsev, Technological Shipbuilding Research Institute, Russia

S.B.Startsev, Krylov Shipbuilding Research Institute, Russia

Ensuring Safe Working Conditions in Shipbuilding and Repair on Computer Technology Base

Section B CREW TRAINING FOR DAMAGE CONTROL IN EXTREME SITUATIONS. LIFE-SAVING AT SEA, ASSISTANCE TO DAMAGED NAVAL AND COMMERCIAL SHIPS

S.N.Soloviev, RF MD First Navy Research Institute, Russia
Solution of Ship's Unsinkability Struggle Tasks by Means of Automation

S.L.Lobanov, RF MD First Navy Research Institute, Russia
The Development of Features of the Dangerous Condition of the Ship while Taking a Decision to Abandon Her

F.Perez, A.Lopez, Madrid Technical University, Spain
A 2D Model to Study the Evacuation of Ship Passengers

B.P.Korotkov, E.Yu.Terekhovich, N.S.Nikolaenko, Naval Engineering Institute, Russia
Theoretical Footings of the Creation of the Dynamic Hardware Assigned for the Ship's State in Seaway during Heavy Weather Evaluating

B.P.Korotkov, E.Yu.Terekhovich, Naval Engineering Institute, Russia
Ship's Navigators Training in Steer Wrecked Ship by Use of Self-Propelled Guided Large-Scaled Models

V.V.Vasiliev, E.P.Makeev, FSUE CSRI Elektropribor, Russia
A Complex Simulator for Training the Personnel of the Primary Control Station and Watch Officers in Conducting Tactical Maneuvering and Providing Safety of DESM Navigation

G.V.Lushin, Naval Engineering Institute, Russia,
S.N.Soloviev, RF MD First Navy Research Institute, Russia
Decision Support Systems of Ship's Staff during Fighting for Floodability. State and Needs Practice

V.Yu.Krapivin, RFMD First Navy Research Institute, Russia
Determination of an Inadvertent Fire Size and Its Evolution Forecast in Computer-Aid Ship Survivability Decision-Making Systems

L.I.Kovtun, S.V.Semenov, Krylov Shipbuilding Research Institute, Russia
Computer-Based Training System for Damage Control on Board Ships

V.M.Korchanov, The Federal Scientific and Research Center, SUE "AVRORA" Corporation Science and Production, Russia
Automated Control of Underwater Insubmersibility of Submarines

S.V.Alekseev, A.I.Vaks, Krylov Shipbuilding Research Institute, Russia,
V.B.Ioffe, K.I.Rishes, The Federal Scientific and Research Center, SUE "AVRORA" Corporation Science and Production, Russia
Devices for Determination of Ship Static Positioning Parameters in Real Sea Conditions

V.L.Alexandrov, A.V.Kolchin, Admiralty Shipyards, Russia,
B.P.Bagrievich, BMZ-Diesel, Russia
Modeling of Emergency and Failure Situations in the Main Engine Control System for Training of a Crew to Act in Emergency Situations

Yu.A.Gubanov, A.A.Leuta, The Federal Scientific and Research Center, SUE "AVRORA" Corporation Science and Production, Russia

Modeling Methods and Means for Simulation of Shipborne EPS Physical Parameters in Test and Simulation Complexes

A.K.Levoshkin, V.I.Nikolsky, RF MD First Navy Research Institute, Russia

Conception of the Naval Shipbuilding Used in the Part of Rescue Provision to the Emergency Ship

G.V.Loskutova, E.L.Sheinman, The Central Research Institute Morphyspribor, Russia

Modern-Day Problems in Improving Efficiency of Detection and Identification of Objects by Sonar Surveillance Means

N.E.Gorlanov, D.B.Ostrovsky, A.V.Sapega, V.A.Yarygin, V.B.Zhelezny, The Central Research Institute Morphyspribor, Russia

Estimation of Short-Range Sonar Capabilities in Navigational Safety

E.R.Agishev, M.A.Erpulev, D.M.Podkopaev, MD RF State Rescue and Diving Research Institute, Russia

Directions of Modernization of Russian Navy Rescue Submersible Vehicles

A.D.Baryshnikov, M.V.Mysenko, MD RF State Rescue and Diving Research Institute, Russia
State and Prospects for the Development of Life-Saving Appliances

D.A.Borisov, O.V.Vakkilainen, MD RF State Rescue and Diving Research Institute, Russia

Modern Tendencies in the Quality Management and Certification of Rescue Equipment

S.V.Nikonov, A.I.Dmitruk, MD RF State Rescue and Diving Research Institute, Russia

Medical Organization of Support to Salvage Operation with Bottoming the Distressed Submarine

A.A.Shamalov, I.N.Alekseev, L.V.Kozyukov, A.R.Pyshny, MD RF State Rescue and Diving Research Institute, Russia

Possibilities of Assistance to Distressed Submarines, Ships and Vessels by Rescue Vessels of Naval Forces

V.B.Vasiliev, V.F.Rymanov, V.N.Rivkind, FSUE CRIST, Russia

Development of Maritime Technologies and Designing of Mobile Facilities and Equipment for Crew-Saving, Emergency Elimination and Ship-Lifting Operations

V.B.Vasiliev, V.F.Rymanov, V.N.Rivkind, FSUE CRIST, Russia

Development of Maritime Technologies and Designing of Mobile Facilities and Equipment for Crew-Saving, Emergency Elimination and Ship-Lifting Operations

Yu.V.Abramov, CJSC SPC "Technoef", Russia, V.N.Ilyukhin, MD RF State Rescue and Diving Research Institute, Russia

On Improvement of Submarine Performance and of Submarine Personnel Rescue in Cases of Emergency

R.Kh.Balyan, S.M.Khagabanov, I.S.Shkolnikov, V.I.Pozern, V.M.Kuznetsov, G.P.Golubev, The Central Research Institute Morphyspribor, Russia

Surface Ships Sonar Systems with Effective Search and Torpedo Tracking Mode

A.L.Simakov, V.V.Tsurganov, A.M.Violainen, RF MD First Navy Research Institute, Russia
Russian Navy Surface Ship Exploitation under Modern Conditions and Safety Provision

V.Z.Krants, V.V.Sechin, The Central Research Institute Morphyspribor, Russia
Submersible Vehicles-to-Ship-Carrier Sonar Communication System

*Yu.S.Veselov, A.V.Gerasimov, V.D.Zavirukho, Yu.A.Kononov,
JSC "Central Research Institute of Marine Engineering", Russia*
The Hand-Driven Desalination Plant

E.A.Aframeev, L.D.Volkov, Krylov Shipbuilding Research Institute, Russia
Projection of a Heavy Wing-in-Ground Craft for a High-Speed Segment of a Sea Safety System

R.A.Ivanov, V.A.Soskov, Krylov Shipbuilding Research Institute, Russia
Power Module Based on Closed Cycle Internal Combustion Engine for Underwater Appliances

*V.K.Domansky, R.A.Ivanov, V.A.Frisk, Yu.M.Dlugoborsky, M.Sh.Denisova,
Krylov Shipbuilding Research Institute, Russia*
Immersion Suite Thermal-Electro Supply System Based on Hydron CGC for Man's Vital Activity Support at Sea in Accidental and Operating Situations

A.G.Erokhin, A.V.Kramorenko, MD RF State Rescue and Diving Research Institute, Russia
Means and Methods of Sunken Submarine Strop

L.N.Kornienko, V.N.Kalmykov, V.A.Knyazev, Naval Engineering Institute, Russia
Research of the Ship's Wake Towage, Using a Steel Tow-Line by Means of Strain Substitution for "Nonlinear Equivalent Spring"

V.V.Vasiliev, L.E.Korf, FSUE CSRI Elektropribor, Russia
A Unified Navigation Complex for a Deep Submergence Rescue Vehicle Rus

E.A.Ostriyansky, A.A.Voitov, Branch of SOUE CRI "MORPHYSPRIBOR", Russia
Pescar - a Novel Ultra Small-Size System to Be Fitted on Manned Submersible Vehicles for Rescue & Salvage Operations & Research Works on Sea Bed

V.M.Korchanov, V.Z.Sirotnikov, Yu.B.Yudin, K.A.Yakobson, The Federal Scientific and Research Center, SUE "AVRORA" Corporation Science and Production, Russia
Automation of Underwater Vehicle Motion Control for Rescue Operations

G.N.Muru, V.I.Ivanov, V.I.Fomin, Russian Navy 170th Design and Technology Bureau, Russia
Mobile Recompression Chamber for Rendering the First (Emergency) Help to Crews of Emergency Submarines