

Final Programme

**THIRD INTERNATIONAL SHIPBUILDING
CONFERENCE**

ISC'2002

October 8th - 10th, 2002

St.Petersburg, Russia

Krylov Shipbuilding Research Institute

Plenary session 1

N.I.Burkov, Search and Rescue Service, RF Ministry of Transport, Russia

Search and Rescue at Sea and Liquidation of Marine Accidents Consequences

H.N.Das, P.Jayakumar, N.Banerjee,

Hydrodynamics Research Wing, NSTL, India

Prediction of Resistance and Propulsion Performance of High Speed Underwater Vehicles Using CFD Tools

O.M.Paliy, Krylov Shipbuilding Research Institute, Russia

Naval and Merchant Ship Strength: Achievements and Prospects

W.Magelssen, Det Norske Veritas, Norway

Fatigue – the Challenge for Modern Ship Design

V.M.Belyaev, V.I.Vasyukov, K.B.Veshnyakov, V.I.Zalugin, A.I.Kiryushin, Yu.K.Panov,

V.I.Polunichev, I.I.Afrikantov Experimental Design Bureau of Mechanical Engineering, Russia

Prospective Reactor Plants for New Generation Atomic Vessel

V.V.Voitetsky, SPE Aurora, Russia

Basic Trends of Improvement of Ship Technical Facilities Control Systems

I.L.Baranov, CDB ME “Rubin”, Russia

S.V.Budrin, Krylov Shipbuilding Research Institute, Russia

Software Complex for Calculating Vibroacoustic Characteristics – a Tool Used when Creating Engineering Structures

A.M.Vishnevsky, S.A.Kirillov, A.Yu.Lapovok,

Krylov Shipbuilding Research Institute, Russia

Application of Computer-Aided Modeling for Optimization of Cathodic Protection of Ships and Marine Installations

Section A - Development of Marine Transportation Systems, Design and Production of Advanced Ships and Marine Structures, Ship Design Optimization and Management, Safety and Rescue at Sea

THEME A1 - Development of marine transportation systems

V.L.Alexandrov, A.S.Buzakov, V.N.Kireev, D.A.Grubov,
Admiralty Shipyards, Russia

Problems of Designing of Large-Capacity Ice Navigation Tankers

M.Figari, P.Gualeni, E.Rizzuto, DINAV, University of Genoa, Italy

Reliability Evaluation of a Short Sea Shipping Service

M.S.Seif, E.Amini M.M., Sharif University of Technology, Iran

Future Trends in Advanced Marine Vehicles

C.N.Stefanakos, Technological Educational Institute of Athens, Greece

Seasonal Analysis and Comparative Study of Tanker Freight Rate Indices

S.P.Malyshev, V.P.Struev, Yu.M.Vishnyakov, R.A.Kaipov, O.S.Rubanov,

Krylov Shipbuilding Research Institute, Russia

Multifunctional Vessel for Atomic-Technological Servicing

THEME A2 - Design, production and operation of advanced ships and marine structures

A.G.Lyakhovitsky, E.B.Sakhnovsky,

St.Petersburg State Marine Technical University, Russia

Design Data for High-Speed Catamarans

M.Barone, C.Bertorello, E.Fasano,

University of Naples "Federico II", Italy

Global Loads and Resistance Characteristics of Trimaran Hulls

G.F.Demeshko, S.N.Rumin,

St.Petersburg State Marine Technical University, Russia

A.V.Shlyakhtenko, CMDB "Almaz", Russia

The Design Analysis of Distribution on Length of Weight of a High-Speed Monohull

A.V.Ulanov, St.Petersburg State Marine Technical University, Russia

Optimization Criteria and Hierarchy of Mathematical Models of an Underwater Gliding Vehicle

V.S.Krasyuk, Technical University of Kaliningrad, Russia

Multi-Purposed, Self-Propelled Water Trucks (MST)

Theme A2 - Design, production and operation of advanced ships and marine structures (continued)

P.A.Shaub, RF MOD First Central Research Institute, Russia
The Fundamentals of Complex Systems Functional Designing

P.Kujala, Helsinki University of Technology, Finland
F.Roland, German Shipbuilding Research Centre (FDS), Germany
Recent Developments in Design and Production Methods of Steel Sandwich Panels

G.Trincas, University of Trieste, Italy
Seakeeping Robustness in Basic Ship Design Using Design Performance Index

V.G.Bougayev, M.V.Voyloshnikov, M.B.Bezouglova,
Far Eastern State Technical University, Russia
Formalization of Property of an Optimality of Marine Engineering for Application in Structure of Mathematical Generalizations

M.V.Voyloshnikov, Far Eastern State Technical University, Russia
Doublecriteriality of Marine Engineering Optimality Properties

Theme A2 - Design, production and operation of advanced ships and marine structures (continued)

V.P.Ivanov, Kaliningrad State Technical University, Russia
Methodological Problems of the Optimum Projection of the Characteristics of the Fishing Vessels

Sh.G.Aliev, JSC "Dagdiesel Works", Russia
Product's Computer Projection Technology on the First Stages of Technical Decisions Taking

A.S.Portnoy, St.Petersburg State Marine Technical University, Russia
A.A.Alexandrovich, State Instrument-Making University, Ukraine
Creation of Marine Units with Allowance of Risks of Marine Technology

N.A.Reshetov, L.N.Parfenov, V.K.Shurpyak, RF Maritime Register of Shipping, Russia
V.G.Makarov, P.V.Nikitin, O.Ya.Timofeev, O.E.Trubacheva, St.Petersburg State Marine Technical University, Russia
Draft of the Marine Underwater Pipelines Register

Yu.G.Rybalkin, Marine Engineering Company, Russia
Principles of Ensuring Timber - Carriers' Safe Service

Theme A3 - Safety at sea

M.A.Kuteinikov, RF Maritime Register of Shipping, Russia

V.V.Yarisov, The Baltic Fishing Fleet State Academy, Russia

Application of Formal Safety Assessment (FSA) Procedure during Ships Stability Control under Different Operating Conditions

M.N.Avvakumov, Krylov Shipbuilding Research Institute, Russia

The Dynamics Section of IMO “Guidelines of Safety for WIG Craft” Philosophy Based on Results of WIG Flight Mechanics Research

A.M.Gavrilenko, O.V.Sokolov, Naval Engineering Institute, Russia

Evaluation of Resistance to a Fire of Ship Designs

V.G.Makarov, O.Ya.Timofeev, O.E.Trubacheva,

St.Petersburg State Marine Technical University, Russia

P.V.Nikitin, “LUKOIL” Insurance Company, Russia

Estimation of the Environment Risk of Marine Underwater Pipelines Operation. Draft of the Register Rules

N.V.Arefiev, V.L.Badenko, I.V.Lisovsky, G.K.Osipov,

St.Petersburg State Technical University, St.Petersburg, Russia

Geoinformation System for the Register of the Underwater Potentially Dangerous Objects of Russian Federation

Theme A4 - Problems of rescue at sea

I.N.Marfin, State Rescue and Diving Research Institute, Russia

Safety and Rescue at Sea: Problems and Decisions

V.N.Ilyukhin, A.D.Baryshnikov, P.K.Shubin,

State Rescue and Diving Research Institute, Russia

Demand for Introduction of Robotized Technology in Maritime Safety Control System

V.N.Ilyukhin, A.V.Ovchinnikov,

State Rescue and Diving Research Institute, Russia

Complex Approach to the Safety Control During Manned Underwater Operations, Performed from Surface-and-Underwater Carriers for Divers

E.R.Agishev, A.A.Erpulev, M.A.Erpulev,

State Rescue and Diving Research Institute, Russia

About an Information Support of Search and Rescue Operations

A.D.Baryshnikov, M.V.Mysenko,

State Rescue and Diving Research Institute, Russia

The Current Status and Trends in Development of the Survival Aids for the Personnel of Naval Ship and Vessel

THEME A4 - Problems of rescue at sea (continued)

A.I.Golovanov, N.N.Kotov,

State Rescue and Diving Research Institute, Russia

Suggestions for Development on Submarine Rescue System Now in Force in Russian Navy

Yu.V.Abramov, Science and Production Centre Technoef, Russia

V.N.Polovinkin, N.G.Kuznetsov Naval Academy, Russia

New Explosion-Proof System for Collective Rescue of Crew from Modern Nuclear Submarines Ensuring Escape of Considerable Angles of Disables Ship Heel and Trim and Emergency Warning Means as Integrated System. Free Breathing Device

A.A.Kaifadzhyan, S.A.Vassel,

State Rescue and Diving Research Institute, Russia

About the Complex Approach in the Development of Submarine Emergency Radio Aids

A.V.Kramorenko, A.G.Erokhin,

State Rescue and Diving Research Institute, Russia

Using of the Steel Lifting pontoons when Repositioning the Nuclear-Powered Submarine "Kursk" out of the Floating Dock PD-50 into the Floating Dock PD-42

Section B - Propulsion, Seakeeping, Manoeuvring Performance and Problems of Interaction with Ice of Ships, Marine Vehicles and Structures, Survivability of Marine Structures

THEME B1 - Problems of ships resistance

A.I.Korotkin, N.A.Koltsova, G.I.Kanevsky,

Krylov Shipbuilding Research Institute, Russia

The Specified Circuit of Recalculation of the Viscous Drag on Full-Scale Conditions for Vessel's Model

M.E.Ryabkov, Krylov Shipbuilding Research Institute, Russia

A Method for Calculating the Spectrum Parameters of Turbulent Boundary Layer

T.Koronowicz, L.Kwapisz, T.Waclawczyk,

Institute of Fluid - Flow Machinery, Polish Academy of Sciences, Poland

The Velocity Field Prognosis behind a Ship Hull in Full Scale

L.D.Volkov, N.A.Ovchinnikov, Krylov Shipbuilding Research Institute, Russia

Research of Pressure Drag Forming Features of Transport Ships with Full Form on Schematical Models in a Wind Tunnel

A.V.Sverchkov, Krylov Shipbuilding Research Institute, Russia

Perspectives of Artificial Cavity Application Aimed on Resistance Reduction of Ocean/River Ships

THEME B1 - Problems of ships resistance (continued)

A.S.Gouzeyev, G.I.Kanevsky, A.I.Korotkin, Krylov Shipbuilding Research Institute, Russia
G.D.Filimonov, Concern "Morflot", Russia

About Hydrodynamic Characteristics of the Painted Surface of Ship Hull in Connection with Forthcoming Inhibitory Action of Application of Self-Polishing Covers

A.O.Lebedev, Krylov Shipbuilding Research Institute, Russia

The Flow Picture Nearby Merchant Ship Above-Water Part Model

I.A.Chicherin, A.M.Klubnichkin, Yu.S.Timoshin, Krylov Shipbuilding Research Institute, Russia

Nonlinear Ship Wave Calculations by SHIPWAVE Code

S.N.Ivanov, S.T.Gouzeyev, A.S.Gouzeyev, Krylov Shipbuilding Research Institute, Russia

Features of Modeling of Vortical Flows Ship Designs

V.I.Salazhov, Yu.K.Yakovlev, RF MOD First Central Research Institute, Russia

Ship Waves – the Influence of Unstationary Conditions and Shallow Water

THEME B2 - Ship propulsors

L.A.Mukhina, A.Yu.Yakovlev,

Krylov Shipbuilding Research Institute, Russia

Computation of Counterrotating Propellers Steady and Unsteady Characteristics

V.A.Bushkovsky, L.A.Mukhina, A.Yu.Yakovlev,

Krylov Shipbuilding Research Institute, Russia

Evaluation of Duct Shape Influence on Hydrodynamic and Cavitation Propeller Characteristics

Yu.S.Bazilevsky, Krylov Shipbuilding Research Institute, Russia

Influence of Leading Edge Roughness on Performance of Propellers Models

V.K.Fedosov, Sevmashpredpriyatie, Russia

Use of State-of-the-art 3D Coordinate Determination Systems to Inspect the Geometric Parameters of the Screw Propellers

A.V.Andryushin, V.S.Golubev, Russian Maritime Register of Shipping, Russia

F.M.Katsman, Adm. S.O.Makarov State Marine Academy, Russia

G.V.Boitsov, Krylov Shipbuilding Research Institute, Russia

Project of New RS Requirements for Icebreaking Propeller Strength Sizes

Y.Yoshida, Wessex Institute of Technology, UK

Attwood's Proposition to Power Design of a Planing Boat

THEME B2 - Ship propulsors (continued)

S.-K.Lee, America Bureau of Shipping, USA

Numerical Study – Propeller/Rudder Cavitation of Fast Containership

M.A.Mavlyudov, A.V.Pustoshny, O.V.Yakovleva, Krylov Shipbuilding Research Institute, Russia

E.V.Danilov, Sea Technique Bureau "Katran", Russia

New Concept of Waterjet – Compact Jet

L.Wilczynski, Gdansk Ship Model Basin, Ship Design and Research Centre, Poland

Probabilistic Approach Towards Modelling of Cavitation Inception in the Flow Around Screw Propeller

Sh.G.Aliev, A.K.Philimonov, JSC "Dagdiesel Works", Russia

Acoustic Model of the Developed Cavity

I.D.Novikov, Krylov Shipbuilding Research Institute, Russia

Cavitating Water-Jet with Expanded Range of Effective Operation

THEME B3 - Dynamics and seakeeping of ships

L.I.Vishnevsky, M.A.Mavludov, Krylov Shipbuilding Research Institute, Russia

A.R.Togunyats, Giprorybflot, Russia

Comparison Analyses of Efficiency of Using of Variable Pitch Propeller for Different Purpose Ships

T.Moltrecht, Voith Schiffstechnik GmbH & Co. KG, Germany

Development of the Cycloidal Rudder for Very Maneuverable Combatant

Yu.I.Nechaev, St.Petersburg State Marine Technical University, Russia

V.S.Slesarevsky, Kaliningrad State Technical University, Russia

Algorithm and Program Realization of Mathematical Modeling of Dynamics of Heel and Capsizing when Ship's Moving on Arbitrary Course on Rough Seas

O.P.Zavyalova, St.Petersburg State Marine Technical University, Russia

Mathematical Modeling of Conditions of Initiation and Development of Extreme Broaching Situation on Irregular Waves

G.I.Kanevsky, A.I.Nemzer, K.E.Sazonov, A.V.Poustoshny,

Krylov Shipbuilding Research Institute, Russia

The Investigation of Propulsion, Maneuvering and Icebreaking Capability of Double Acting Tanker DAT

THEME B3 - Dynamics and seakeeping of ships (continued)

B.S.Perelman, E.I.Privalov,

R.E. Alexeev Central Hydrofoil Design Bureau JSC, Russia

Definition of Ship Ride Characteristics at High Seas Using the Weight – Inertia Non-Similar Model Tests

S.X.Du, D.A.Hudson, W.G.Price, P.Temarel,

University of Southampton, United Kingdom

An Investigation into the Effects of Irregular Frequencies and the Waterline Integral in the Hydrodynamic Analysis of Vessels with Forward Speed

L.J.Kwapisz, T.Koronowicz, Institute of the Fluid Flow Machinery, Poland

The Trajectory and Footprint Determination for Underwater Umbilical Vehicle

E.I.Veremey, St. Petersburg State University, Russia

V.M.Kortchanov, Avrova, Russia

Optimum Stabilization of High-Speed Ships' Motion in the Space under the Conditions of High Seas

E.A.Mouraviev, St.Petersburg State Marine Technical University, Russia

Information Processing Based on Algebra of Fuzzy Groups in the Tasks of Damage Ship Dynamics Control

THEME B3 - Dynamics and seakeeping of ships (continued)

E.B.Karulin, M.M.Karulina,

Krylov Shipbuilding Research Institute, Russia

Description of First-Year Ridge Keel Behaviour Using Discrete Element Method

Yu.I.Nechaev, St.Petersburg State Marine Technical University, Russia

Yu.L.Makov, Kaliningrad State Technical University, Russia

Software for Analysing and Interpreting Information on Ship's Dynamics under Conditions of Intensive Icing

M.E.Ryabkov, Krylov Shipbuilding Research Institute, Russia

Freedom Degrees Number and Structure of Generalized Irregular Wave Spectrum

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

Rotational Oscillations of Ship's Wing Structures by Computer Simulation

S.B.Startsev, E.Ya.Semionicheva,

Krylov Shipbuilding Research Institute, Russia

Unsteady Aero-Hydrodynamic Characteristics of Wing Structures at the Interaction with Harmonic Gust

Section C - Strength, Reliability and Durability of Ship Hulls and Offshore Structures

THEME C1 - External forces on ships and offshore structures

S.V.Suslov, Ukrainian State Maritime Technical University, Ukraine

On the Account of the Hydrodynamic Forces in Nonlinear Wave – Ship Interaction Simulation

O.E.Litonov, Krylov Shipbuilding Research Institute, Russia

Local Ice Pressures and Optimization of Ice Belt Structures for Offshore Platforms

E.M.Appolonov, A.B.Nesterov, Krylov Shipbuilding Research Institute, Russia

A Model of Ice Dynamic Failure under Local Crushing

V.G.Makarov, O.Ya.Timofeyev, A.V.Chernov, P.V.Nikitin,

St.Petersburg State Marine Technical University, Russia

Loads Acting on Marine Pipeline and Scantling of Thickness of Pipe

O.E.Litonov, S.V.Verbitsky, Krylov Shipbuilding Research Institute, Russia

Conceptual Design of Ice-resistant Platform Substructures for the Russian Shelf

THEME C2 - Strength, stability and fatigue of ship hulls and offshore structures

S.V.Petinov, St.Petersburg Marine Technical University, Russia

The Models of Structural Fatigue: State of Art and Prospects

N.V.Burnasheva, K.M.Parnov, V.M.Ryabov, A.P.Fedorov,

Krylov Shipbuilding Research Institute, Russia

The Behaviour of Thin-Wall Cylindrical Shells after Loss of Stability at an Axial Compression with Limitation of Longitudinal Movements

V.R.Ibnoyaminov, V.V.Sheliuto, Krylov Shipbuilding Research Institute, Russia

Computer Simulation of Submersible Hull Shell Buckling

V.R.Ibnoyaminov, Krylov Shipbuilding Research Institute, Russia

Statistical Principles of Standardizing Stability Margins for Pressure Hulls of Underwater Vessels

A.V.Alexandrov, E.Ya.Vorononok, Krylov Shipbuilding Research Institute, Russia

Non-Linear Buckling Computational Method for Arbitrary Shells

THEME C2 - Strength, stability and fatigue of ship hulls and offshore structures (continued)

M.A.Moskalenko, Adm. G.I.Nevelskoy Maritime State University, Russia

Estimation of Remaining Resource of Ships' Hulls after Twenty Years of Service

M.A.Moskalenko, Adm. G.I.Nevelskoy Maritime State University, Russia

Investigating Carrying of the Reinforced Frame Branch onto the Action of Concentrated Load

V.V.Kozlyakov, B.N.Stankov, Marine Engineering Bureau, Ukraine

Specific Features of Ensuring of the Longitudinal Strength of the Steel Floating Docks Hulls at Service and Ocean Towing

A.Bollero, F.Casuscelli, Cetena S.p.A., Italian Ship Research Centre, Italy

E.Rizzuto, DINAV, University of Genoa, Italy

Uncertainties in the Evaluation of the Longitudinal Strength of Ships

L.I.Korostylev, Adm. S.O.Makarov Ukrainian State Maritime University, Ukraine

Fatigue Strength Calculation of the Ship Structural Details and Their Design

THEME C3 - Safety and reliability of ship hulls and offshore structures

E.M.Appolonov, V.E.Segal, Krylov Shipbuilding Research Institute, Russia

Specific Features of Ultimate Strength Calculation for Grillages of the "Double Side" Type

G.V.Egorov, Marine Engineering Bureau, Ukraine

Influence of the Human Factor on the Ship Hull Strength Requirements

G.V.Egorov, Marine Engineering Bureau, Ukraine

Study of the Hull Members Relevance Factors within the Framework of the CAP Procedure

O.M.Paliy, E.M.Appolonov, B.A.Kuznetsov, V.V.Osipenko,

Krylov Shipbuilding Research Institute, Russia

On Strength Investigations in Support of a Unique Salvage Operation

P.K.Das, A.Thavalingam, University of Strathclyde, Scotland, UK

Strength and Reliability of FPSOs

THEME C3 - Safety and reliability of ship hulls and offshore structures (continued)

V.I.Evenko, A.V.Andryushin, M.A.Gappoev,

Russian Maritime Register of Shipping, Russia

Yu.N.Alexeev, Krylov Shipbuilding Research Institute, Russia

L.A.Zolotukhina, St.Petersburg State Marine Technical University, Russia

Statistical Methods of Extreme Values to Predict Operating Risk and to Ensure Reliability for Offshore Structure and Sea-Going Ships

B.Boon, Bart Boon Research and Consultancy, The Netherlands
Practical Application of Limit State and Reliability Philosophy for Work Decks

V.K.Fedosov, Sevmashpredpriyatie, Russia
Use of State-of-the-art 3D Coordinate Determination Systems

K.Rajagopalan, Indian Institute of Technology, India
Reliability of Ship Hull Structures Using AFOSM

A.V.Alexandrov, I.G.Guriev,
Krylov Shipbuilding Research Institute, Russia
A.A.Fridlyand, V.G.Surint, L.S.Zaslavsky, SPE "Park-Centre", Russia
The Automized New Generation System for Static Strain-Gauge Measurements

THEME C3 - Safety and reliability of ship hulls and offshore structures (continued)

G.V.Boitsov, Krylov Shipbuilding Research Institute, Russia
Ultimate Strength Margin Justifications for Hull Structures Based on Economic Probability Factors

G.V.Boitsov, Krylov Shipbuilding Research Institute, Russia
Evaluations of Tanker Hull Reinforcement Efficiency in Terms of Reducing Pollution Hazards Due to Spillage Resulting from Collision Accidents

F. Fernandez-Gonzalez, I. Trejo Vargas, M. Talens Mion,
ETSIN, Polytechnical University of Madrid, Spain
V. Martinez Caridad, A. Ruiz Calvo, IZAR, Puerto Real Shipyard, Spain
Controlling Strains and Stresses in Large Ship Hull Assemblies Induced by Handling Operations at a Shipyard

E.M.Appolonov, M.A.Kudrin, A.B.Nesterov, K.E.Sazonov,
Krylov Shipbuilding Research Institute, Russia
V.I.Evenko, M.A.Kuteinikov,
Russian Maritime Register of Shipping, Russia
Risk Estimation under Tanker Accidents Caused by Navigational Errors (Collisions and Taking the Ground)

V.G.Makarov, P.V.Nikitin, M.A.Aliluev, O.E.Trubacheva,
St.Petersburg State Marine Technical University, Russia
L.N.Parfenov, V.K.Shurpyak, RF Maritime Register of Shipping, Russia
Protection of Marine Underwater Pipelines

THEME C4 - Materials, technologies, welding

Yu.A.Libov, V.M. Ryabov, Krylov Shipbuilding Research Institute, Russia
B.L.Feigin, JSC "Petergaz", Russia
Investigation of Influence of Technological Parameters on the Pipeline Buckling on the Example of Gas Pipeline "Blue Stream". Theory, Calculation, Experiment

N.N.Fedonyuk, B.A.Yartsev, Krylov Shipbuilding Research Institute, Russia
Integrated Approach to Development of Multy-Functional Structural Components of Composite Polymeric Materials for Marine and Land Transport Applications

Yu.D.Stepanov, Krylov Shipbuilding Research Institute, Russia
Synergetics of Deformation and Damage Processes in Metals

I.Z.Goldenberg, Baltic State Academy of Fishing Fleet, Russia
Laws of Localization and Change of Speeds of Corrosion Destructions of Ship Covering Plates

V.I.Alferov, S.D.Knoring, V.M.Shaposhnikov, E.Ya.Voronenk,
Krylov Shipbuilding Research Institute, Russia
Principles of Strength Regulation for Risers Made of Aluminum Alloys

Section D - Ship Powerplants, Computer-Assisted Systems of Control for Ships, Ship Machinery and Equipment, Sound and Vibration, Dynamic Strength and Reliability of Ship Machinery

THEME D1 - Hydrocarbon and nuclear ship powerplants

V.P.Zimin, R.A.Ivanov, V.V.Timofeev,
Krylov Shipbuilding Research Institute, Russia
Power Complexes on the Basis of National Gas Turbine Equipment for Remote Regions of Far North and Far East of Russia

V.A.Frisk, Yu.M.Dlugoborsky, M.Sh.Denisova,
Krylov Shipbuilding Research Institute, Russia
Experimental Study of Energy/Gas Generation Processes in Combined Electric Power/Gas Generation Plants

O.G.Litavrin, Krylov Shipbuilding Research Institute, Russia
Research of Waste Heat Recovery Potentialities of Gas Turbine Engines at Heat Exchangers Surface Temperature Lower Than Dew Point

O.G.Zhiritsky, V.P.Troshin, State Research and Development Production Gas Turbine Company "Zorya-Mashproekt", Ukraine
Scientific and Production Enterprise Mashproekt: Experience of Designing and Prospects for Development of Marine Gas Turbines

V.A.Sadykov, State Research and Development Production Gas Turbine Company "Zorya-Mashproekt", Ukraine
Use of Marine Gas Turbine Building Achievements and Their Provision with Standards

THEME D1 - Hydrocarbon and nuclear ship powerplants (continued)

G.Benvenuto, DINAV, University of Genoa, Italy

U.Campora, DIMSET, University of Genoa, Italy

Dynamic Behaviour Analysis of a Sequentially Turbocharged Marine Diesel Engine

I.A.Podvyaznikov, Krylov Shipbuilding Research Institute, Russia

A.A.Sokolov, JSC "Redan-DB", Russia

Creation of New Russian Marine Combined Units of AC Diesel-Generator– Compressor Type

V.I.Erofeev, Yu.N.Kandaurov,

RF MOD First Central Research Institute, Russia

The Problem of Shipborne Gas-Turbine Plants Technical Condition Monitoring

I.V.Kudinovich, A.S.Kyzyurov,

Krylov Shipbuilding Research Institute, Russia

The Application of RELAP5/MOD3 Code to the Analysis of Heat Transfer in Case of Vapor and Gas-Vapor Stream Condensation Inside Tube

L.N.Gerasimov, I.V.Kudinovich, V.P.Struev, Krylov Shipbuilding Research Institute, Russia

Yu.A.Svistunov, Efremov Institute of Electrophysical Apparatus, St.Petersburg, Russia

Conceptual Design Study of Small-Sized Nuclear Power Plant with Subcritical Reactor Driven by Accelerator

THEME D1 - Hydrocarbon and nuclear ship powerplants (continued)

S.P.Bolgarov, A.V.Vorontsov, I.V.Kudinovich, M.G.Khorkov,

Krylov Shipbuilding Research Institute, Russia

Marine Nuclear Steam Generating Plant on the Basis of Water-Cooled Reactor with Production of Saturated or Superheated Steam in the Core

A.V.Vorontsov, I.V.Kudinovich, A.Zh.Suteeva,

Krylov Shipbuilding Research Institute, Russia

Radiation Dose Assessment at Storage and Handling with Irradiated Tube Heads of Nuclear Icebreaker Spent Fuel Assemblies

D.I.Galeyev, Krylov Shipbuilding Research Institute, Russia

Analytical Substantiation of Imitation of Oscillate Influence at Marine Steam Generating Plant

E.Yu.Andreeva, L.B.Gusev, N.Ya.Shcherbina,

Naval Engineering Institute, Russia

R.E.Rimdenok, P.G.Steblyn, Ship Repair Plant "Nerpa", Russia

Optimizing of Accident-Free Longtime Keeping of Nuclear Submarines, Reactor Blocks and Reactor Compartment Processes

E.P.Denisov, V.Yu.Grigoriev, A.B.Doroshchenko,

Krylov Shipbuilding Research Institute, Russia

An Assessment of Efficiency of Heat Transfer Intensification Means During Steam Condensation in Tube Banks

THEME D2 - Vibroacoustics of ship equipment

V.I.Popkov, Krylov Shipbuilding Research Institute, Russia
Vibrational Reduction of Multimachine Assembly

A.O.Samoilov, Krylov Shipbuilding Research Institute, Russia
Mathematic Modelling of Equipment Vibroisolating Mounting for Calculating Its Working Capacity

S.A.Khudyakov, Adm. N.G.Nevelskoy State Marine University, Russia
Principles of Laying Down Limits of Elastic System Free Vibration Frequencies in Motorship Engine Rooms

S.E.Chernov, TORSIO Ltd., Russia
The Method of Application of an Estimation of Work Capacity of Silicone Dampers of Torsional Vibrations of Engines

E.N.Afonin, Krylov Shipbuilding Research Institute, Russia
On Calculation of Propulsion Motor Vibrations

THEME D3 - Strength and reliability of ship equipment

N.A.Lakhov, Krylov Shipbuilding Research Institute, Russia
Approach to Determination of Assumed Stress for Shipboard Equipment Elements at Static Loads

L.V.Efremov, Institute of Problems Machines RAS, Russia
G.I.Bukharina, Krylov Shipbuilding Research Institute, Russia
M.Yu.Ivanov, Russian Maritime Register of Shipping, Russia
Problems of Safe Development of Torsional Vibrations of the "Motor" Forms of Marine Diesels

A.Z.Bagerman, Krylov Shipbuilding Research Institute, Russia
Reduction in Labor and Cost to Determine the Stress-Rupture Strength of High-Temperature Proof Alloys

Yu.A.Maximov, V.V.Travin, L.V.Lysenko,
OJSC "Kaluga Turbine Works", Russia
Ensuring the Strength of Ship Power Equipment, Made of Titanium, by Mathematical and Physical Modeling

A.Z.Bagerman, I.P.Leonova, A.M.Barsukov, R.A.Ivanov,
Krylov Shipbuilding Research Institute, Russia
A.N.Tyutyuev, V.N.Tyutyuev, "Aurora" Corporation, Russia
A.P.Shevakov, BE "Turbokron" of Kronshtadt Marine Plant, Russia
Methodology of the Use of the Parameters of Gas Turbine Engine to Evaluate Its Technical State and Control

THEME D4 - New technologies in ship powerplant and computer-assisted systems of control for ships, ship machinery and equipment

M.Altosole, G.Benvenuto, M.Figari, DINAV, University of Genoa, Italy
Concept Design of a Trimaran Fast Ferry

N.P.Pogodin, Yu.K.Dushin, V.F.Chekanov,
Krylov Shipbuilding Research Institute, Russia
Prospects of Application in Ship Power Plant of Heating Systems with High-Temperature Heat-Carriers

R.A.Ivanov, Krylov Shipbuilding Research Institute, Russia
Working out of Generalized Technical Requirements to Test-Beds of Power Plants with Electrochemical Generators from Positions of Ensuring of Their Safe Operation

A.N.Kalmykov, St.Petersburg State Marine Technical University, Russia
Evaluation of Efficiency of Methods of Regulation of Exit Parameters of Electrochemical Drive

R.A.Ivanov, Krylov Shipbuilding Research Institute, Russia
Error Estimation of the Approached Decision of the Equations of Dynamics of Ship Power Installations

THEME D4 - New technologies in ship powerplant and computer-assisted systems of control for ships, ship machinery and equipment (continue)

Yu.A.Gubanov, SPE Aurora, Russia
Integration of Control Facilities Ship Electropower Systems

V.A.Nikoltsev, G.A.Korzhasin, P.B.Antonov, A.S.Vasilievsky, O.A.Nikolaev, Central Scientific Research Institute "Granit", Russia
Intelligent Technologies in Ship Control Complexes Designing

E.I.Veremey, St.Petersburg State University, Russia
V.M.Korchanov, SPE Aurora, Russia
Principles of Automated Control of Submarine Motion Using High-Efficiency Ballast Tanks and Horizontal Planes

Section E - Physical Fields of Ships and Oceans (Acoustics, Electrodynamics, Magnetism and Hydrophysics), Environmental Problems and Habitability of Ships

THEME E1 - Acoustics of ships and oceans, electrodynamics

C.Johannsen, Hamburg Ship Model Basin (HSVA), Germany

The Propeller as a Main Exciter of Ship Vibrations - How to Avoid Problems

V.P.Morozov, Krylov Shipbuilding Research Institute, Russia

Self-Exciting Hydro-Elastic Oscillations of Ship's Rudders

A.G.Alexeyev, A.P.Starostin, T.V.Starostina, E.V.Zhukova,

Rubber Coatings and Articles Research Institute, Russia

V.Yu.Chizhov, Krylov Shipbuilding Research Institute, Russia

Working Out and Research of Rubbers with High Module for Acoustic Polymer Coatings

A.V.Ionov, B.A.Yartsev, Krylov Shipbuilding Research Institute, Russia

V.M.Ryabov, St.Petersburg State University, Russia

Damping Polymer Composite Structures

V.Z.Goldovsky, A.N.Korovkin, Krylov Shipbuilding Research Institute, Russia

Application of Finite Element Method to Appreciation of Efficiency of Hydroacoustic Means by Ships

THEME E1 - Acoustics of ships and oceans, electrodynamics (continued)

V.Yu.Kirpichnikov, A.B.Maizel, Yu.N.Mukalov, V.V.Savenko,

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Experimental Investigation of Icebreaking Noise Generated by a Towed Model of a Double-Acting Ship

A.V.Avrinsky, N.A.Dementiev, V.F.Zhuravlev, I.K.Pimenov,

St.Petersburg State Marine Technical University, Russia

S.V.Budrin, A.V.Ionov, Krylov Shipbuilding Research Institute, Russia

Power Radiation of a Sound of Plates at the Presence of a Body of Neutral Buoyancy

Yu.M.Patrakov, Krylov Shipbuilding Research Institute, Russia

T.Yu.Kovaleva, T.G.Bezyazykova, V.A.Senchenok,

Prof. M.A.Bonch-Bruevich State Telecommunicational University, Russia

Investigation of Angular Characteristics of Radioabsorbitive Coatings

Yu.M.Patrakov, Krylov Shipbuilding Research Institute, Russia

T.Yu.Kovaleva, T.G.Bezyazykova,

Prof. M.A.Bonch-Bruevich State Telecommunicational University, Russia

A.G.Alexeyev, Rubber Coatings and Goods Research Institute, Russia

Principles and Design Technology of Multifunctional Coating

A.N.Shibkov, Far Eastern State Technical University, Russia

The Influence of the Bottom and Surface on the Propagation of Electromagnetic Field of Horizontal Electric Dipole in the Layer of Water

THEME E1 - Acoustics of ships and oceans, electrodynamics (continued)

E.F.Itsko, G.I.Agafonov, NIPROINS Ltd., Russia

A.D.Yakovlev, State Technical Institute – Technical University, Russia

A.V.Kulakov, SOYUZHMORENIIPROEKT, Russia

Protection of Port Structures with "Subkor" Enamel of Underwater Application

I.Omae, Omae Research Laboratories, Japan

Recent Developments in Tin-Free Antifouling Paints

E.F.Itsko, S.A.Drinberg, V.S.Kuznetsov, NIPROINS Ltd., Russia

Paint Coatings for Antenna-Feeder Devices

A.G.Alexeyev, M.F.Kliodt, B.V.Ayzikovich,

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Elastic Radio-Absorbing Coatings for Electromagnetic Compatibility of Radio-Technical Means and Above-Water Ships Visibility Lowering

A.M.Vishnevsky, L.M.Matsevich, T.V.Kalyada, A.B.Razletova,

Krylov Shipbuilding Research Institute, Russia

Specificity of EMF Hygienic Norms for Ships and Marine Installation

THEME E2 - Hydrophysics

Yu.G.Stepanov, Krylov Shipbuilding Research Institute, Russia

On the Internal Wave Breaking Criteria in Stratified Ocean

V.G.Ivanov, A.D.Litvin, K.V.Zemskov,

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Some Features of the Temperature Field, Created by the Local Turbulent Region into Stratified Media

A.K.Zavialov, Krylov Shipbuilding Research Institute, Russia

Generation of the Internal Waves in Two-Layer Liquid by Vortex Structures

A.Yu.Grigoriev, R.H.Suleimanov, A.D.Terentiev,

Kaliningrad State Technical University, Russia

On Laboratory-Scale Modeling of the Flows in Rotating Liquids

G.A.Fedotov, Granit-7 Company, Russia

Velocity Field Sensor Systems Immune to Vibration of a Hydrophysical Instrumentation Carrier

THEME E3 - Magnetism

I.P.Krasnov, Krylov Shipbuilding Research Institute, Russia

E.I.Yakushenko, Naval Engineering Institute, Russia

About Magnetic Hysteresis Model Suggested by J.C.Maxwell

A.N.Shibkov, S.I.Gerasimov,

Far Eastern State Technical University, Russia

A.V.Tyuveev, Far Eastern State University, Russia

Calculation of the Field of Horizontal Electric Dipole in the Three-Layered Medium

A.P.Babichev, N.D.Bogacheva, V.A.Bystrov,

Krylov Shipbuilding Research Institute, Russia

The Analysis and Characteristics of Modern and Perspective Magnitohard Materials

Yu.G.Bryadov, V.A.Bystrov, A.V.Maximov, V.V.Nesterov, A.L.Permyakov,

Krylov Shipbuilding Research Institute, Russia

Ship Information System of the Magnetic Condition

B.M.Kondratenko, RF MOD First Central Research Institute, Russia

Magnetization of Ferromagnetic Steel by Two Non-Unidirectional Magnetic Fields

THEME E3 - Magnetism (continued)

V.I.Bolshakov, S.T.Gouzeyev, G.V.Sokolov,

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Measure of a Magnetic Flux Density with the Increased Access in Working Space

I.P.Krasnov, Krylov Shipbuilding Research Institute, Russia

About the Equations Defining Magnetization and Eddy Currents in Ferromagnetic Bodies

A.P.Babichev, S.T.Gouzeyev, V.I.Zhigadlo, S.L.Saulin,

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Experience of Operation of a Complex of the Equipment Laboratory Test Beds

A.V.Dyshkantyuk, A.P.Novozhilov,

Adm N.G.Kuznetsov Navy Academy, Russia

S.T.Gouzeyev, Krylov Shipbuilding Research Institute, Russia

On Reengineering Opportunities in Performing Tasks in the Field of Ship Magnetism and the Ecological Safety of Ships

A.M.Vishnevsky, L.M.Matsevich, T.V.Kalyada, A.B.Razletova,

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Hygienic and Ecological Aspects of Optimizing Environmental Conditions on Vessels

THEME E4 - Habitability of ships and environmental problems

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The Problems of Hygienic and Medico-Social Security of Water Transport Workers

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The Modern Condition and Aspects of Development of Habitation and Ergonomical Provision of the Naval Vessels

*V.K.Goncharov, N.Yu.Klementieva, Krylov Shipbuilding Research Institute, Russia
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Ecological Safety Prevention in Process of Marine Oil and Gas Pipelines Designing

I.V.Lisovsky, St.Petersburg State Technical University, Russia

The Radioecological Safety of the Sunken Nuclear Submarines

I.V.Lisovsky, RF MOD First Central Research Institute, Russia

Ecological Safety in the Projects of the Naval Ships and Vessels