

**ANNOTATIONS**  
**of science works published in international magazine**  
**«River transport (XXI<sup>st</sup> century)» 4(80)'2016**

**Problems and development mechanisms of industrial science / T. Pantina, M. Savelyeva // River transport (XXI<sup>st</sup> century).2016. – № 4 (80) – p. 6.**

Analyses the changes in industrial science happened in 1992-2014 years, main parameters of science activity, problems and achievement of Rosmorrechflot's subordinate high schools. Describes the features of the projects of the Strategy of scientific-technological development of Russia in the long term.

**Key words:** science activity, educational organizations, effective cooperation.

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**The role of Siberian region's river field in the system of the international transport communications / A. Zachesov // River transport (XXI<sup>st</sup> century).2016. – № 4 (80) – p. 19.**

Analyses the role of Siberian region's river field in the system of international transport communications. Describes the main fleet types which work on transportations to the regions of far North and Arctic coast. Offers the variants of cargo delivery to the points on small Siberian rivers. Enumerates actual problems of the field.

**Key words:** Siberian river transport, international transport communications, actual problems of the field.

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**The ferry-transport logistics system as a rational way of cargo transportations / E. Zaretskaya, N. Zhavoronkov, S. Mitroshin // River transport (XXI<sup>st</sup> century).2016. – № 4 (80) – p. 23.**

Describes the reasons of creating ferry-transport logistics system for cargo transportations.

**Key words:** scheme of logistics, cargo transportations, river transport, transport optimization.

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**The perspective scheme of passenger transportations in Enisey river basin / V. Nikiforov, L. Fedorov, I. Shevchenko, A. Perfilyeva, E. Perfilyev // River transport (XXI<sup>st</sup> century).2016. – № 4 (80) – p. 27.**

Analyses passenger transportations in Enisey river basin. Shows the results of economical comparison of routing and non-routing schemes of shipping with taking into account the costs for transport infrastructure and fleet renewal.

**Key words:** Enisey river basin, passenger transportations, schemes of shipping.  
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**Shipments of non-metallic building materials by river transport: current state and perspectives / A. Galay, V. Vakhrushev, V. Fomin // River transport (XXIst century).2016. – № 4 (80) – p. 32.**

Makes the analysis of current state of the field of extraction and shipping non-metallic building materials by river transport organizations. Describes the perspectives of its development.

**Key words:** non-metallic building materials, extraction, shipping, perspectives of development.

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**The research of influence of non-metallic building materials run-of-river quarry on river Oka roll's mode / K. Berkovich, L. Zlotina, A. Ilyasov, L. Turykin // River transport (XXIst century).2016. – № 4 (80) – p. 44.**

Describes the results of the cycle of channel researches on river Oka below Serpukhov city, on the site of exploitation of a new run-of-river quarry aimed at detailed study of it's influence on re-form mode of the lowland river's channel.

**Key words:** run-of-river quarry, channel-forming loads sediment, channel's technogenic transformation, flow's speed field, sediment load.

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**Numerical study of the process of blowing weighted fuel drops in oscillating air environment / S. Andryuschenko, A. Dmitriev, D. Sibrikov, S. Titov, G. Yur // River transport (XXIst century).2016. – № 4 (80) – p.49**

Describes the results of numerical study of sprayed fuel' characteristics during high injection pressures and of experiment of blowing produced in this conditions fuel's drops in oscillating air environment.

**Key words:** diesel, atomization characteristics, blowout weighted fuel drops.

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**The imitation model based on Petri's networks as the diagnostics tool for reloading equipment / Y. Ezhov, I. Zub, S. Sokolov // River transport (XXIst century).2016. – № 4 (80) – p. 52.**

The imitation model based on Petri's nets describes as the diagnostics tool for serviceability of reloading equipment. Shows descriptions for units, elements, structural logical relations.

**Key words:** imitation model, reloading equipment, diagnostics, Petri's networks, sub-network.

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**The system of decision making in shipping company while operational management of fleet's working / S. Gromov, D. Gusev, Y. Gusev, V. Koryev// River transport (XXIst century).2016. – № 3 (79) – p. 58.**

Describes the system of decision making in operational management of fleet's working. Offers the functional system's enlarged algorithm – with several variants of realization of the unit responsible for the fleet's modeling in each scheme of cargo flows development.

**Key words:** system for support decision making, fleet's working modeling, operational management, continuous planning.

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