

**POSTER SESSION****November 15, 2018**

12:30-15:30

<b>Submission #</b>	<b>Title of the report</b>	<b>Authors</b>
6	Improvement of the reliability and durability parameters of hydrotechnical structures under conditions of hydrodynamic influence of flows on structural elements	Alexander Solovyev, Dmitry Solovyev and Liubov Shilova
9	Consideration of external natural impacts in the design of hazardous production facilities	Fedor Bryukhan, Ivan Lavrusevich, Alexey Vinogradov and Ivan Vinogradov
13	Mechanical treatment of waste water from fat substances in the ultrasonic field	Pavel Vikulin and Vera Vikulina
14	The effect of ultrasound on the process of water softening	Vera Vikulina and Pavel Vikulin
16	Methods of spectral density estimation for airfield pavements	Van-Hieu Nguyen, Duy-Dong Nguyen and Vladimir Tatarinov
17	Hydrogeological modelling in the geotechnical forecast	Elena Gryaznova
19	Applying Automated and Robotic Means in Construction as a Factor for Providing Constructive Safety of Buildings and Structures	Denis Shutin, Aleksander Malakhov and Kirill Marfin
20	Changes in the composition and structure at PET-waste processing into building materials	Natalya Fomina, Olga Fedotova and Mikhail Polyanskiy
27	Experimental and analytical study of an aluminium alloy bridge made of 1915T	Vladimir Romanets, Andrey Korgin, Valentin Ermakov and Zeyd-Kilani Laith
32	The calculation, design and optimization of sandwich panels using author's programs of the automated designing of development	Stanislav Petrov, Irina Kuznetsova, Yuri Doladov and Nikita Krasnov
35	Grouting mortar for annular injection	Olga Lyapidevskaya
37	Effect of Complex Organo-Mineral Modifier on the Properties of Corrosion-Resistant Concrete	Lam Van Tang, Hung Xuan Ngo, Dien Vu Kim, Boris Bulgakov and Olga Aleksandrova
38	Model of creation a multilayer structure for production of building pipes	Valery Dyadichev, Andrey Kolesnikov, Aleksandr Dyadichev, Sergey Menyuk and Ekaterina Dyadicheva
41	Modeling the weight of a grab bucket for digging	Ilya Tsipurkiy
42	Combined Effects of Bottom Ash and Expanded Polystyrene on Light-weight Concrete Properties	Lam Tang Van, Tho Vu Dinh, Dien Vu Kim, Boris Bulgakov, Olga Aleksandrova and Sophia Bazhenova
44	Current Issues of Mobile Cranes Unification	Batraz Kaytukov and Michail Stepanov
52	Mortars prepared with mechanochemical treated asbestos-containing waste	Alexander Mezhov, Ekaterina Shokodko and Maria Kaddo
55	Fractal analysis of biological wastewater treatment efficiency	Nazira Dzhumagulova, Ilya Svekoy, Vladimir Smetanin and Nguyen Dinh Dap

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57	Transformational administration as form of innovative development of the construction organization	Svetlana Grigoreva
59	Management of the investment project structure in the field of manufacturing innovative building materials	Anastasia Safronova, Petr Kurenkov, Anatoly Egorov, Alla Sokolova and Nadezhda Pilipchuk
66	Shielding effect of reinforced concrete fences in electromagnetic fields of industrial frequency	Mariya Amirkhanyan and Fedor Bryukhan
67	Some provisions of calculations of hydraulic structures according to Russian norms and American standards	Dmitry Kozlov
70	The conceptual model of neuro-fuzzy regulation of the microclimate in the room	Andrey Karpenko and Irina Petrova
80	Properties of the rubber vibration isolator of the elevator	Vladimir Skel
81	Model of suspension displacement in a porous medium	Liudmila Kuzmina and Yuri Osipov
87	Economic efficiency of innovations in construction: the use of the pilotless equipment	Tatiana Kisel and Maxim Kristal
90	The approximate method of determining the integral physical characteristics in some problems of technical theory of plates	Viktor Korobko, Natalia Kalashnikova and Stanislav Shlyakhov
93	evaluation of the survivability of metallic elements in local damage given the beyond design basis effects	Elena Nikolaevna Sorokina and Anna Nikolaevna Leonova
94	Modeling an Individual and Group Decision on the Implementation of a Real Estate Development Project	Elena Romanova
95	Determination of dynamic durabilities and dynamic strength of armature in the elements of the constructive system at its flash structural restructuring	Nataliya Fedorova
97	Theoretical principles of creation of cellular concrete with the use of secondary raw materials and dispersed reinforcement	Eugene Pyataev, Andrey Medvedev, Alexey Poserenin, Marina Burtseva, Elizaveta Mednikova and Vitaly Mukhametzyanov
101	Investigation of activated aluminum as a component of cellular concrete with complex porosation	Viktoria Nelyubova, Valeriya Strokova and Artem Sumin
102	Interaction of a Cylindrical Tank Bottom with an Elastic Foundation	Andrey Leontyev, Avgustina Astakhova and Mikhail Maksimov
103	Calculation of the filtration problem by finite differences methods	Yuri Osipov, Galina Safina and Yuri Galaguz
109	Formation of innovative methods for ecological safety systems of construction	Mikhail Slesarev, Valery Telichenko and Nguyen Dinh Dap
116	Piecewise continuous approach to nonlinear differential equations approximation problem of computational structural mechanics	Roman Leibov
117	The study of the perturbation of normal stresses in the rod of the I-section in the zone of application of the load	Sergey Saiyan and Alexander Paushkin
118	The influence of depth of tensile concrete deterioration on the load bearing strength and deflections of corrosion-damaged floor slabs	Ashot Tamrazyan and Arman Minasyan

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119	The biological treatment of laboratory SBR model with biofilm	Ha Quan Tran, Elena Gogina and Van Quang Tran
121	Analysis Of The Effectiveness Of Thermal Insulation Of A Multi-Layer Reinforced Concrete Slab Using Layer Of Concrete With Low Thermal Conductivity Under The Climatic Conditions Of Vietnam	Vu Dinh Tho, Elena Korol, Nguyen Huy Hoang
126	Evaluation of barrier functions of traditional water supply facilities in relation to toxic trihalomethanes	Zhanna Govorova, Galina Gorenko, Uliana Rudich and Vadim Govorov
127	Effects of silicafume and fly ash on properties of alumina cement	Hong Luu Thi, Long Luong Duc, Cham Trinh Thi, Luan Ta Van and Qui Duong Thanh
128	Regularities of the day surface deformation during layer mining by consecutive lavas	Tamara Makeeva and Vitaly Trofimov
129	Description of approaches to the study of decentralized complex systems in the management of the regional construction cluster	Dmitrii Anufriev and Artem Holodov
131	Calculation of wooden beams reinforced with polymeric composites with modification of the wood compression area	Svetlana Roschina, Aleksey Griбанov, Mikhail Lukin, Mikhail Lisyatnikov and Artem Strekalkin
132	Analytical method of forecasting the settlement of water-saturated soils over time	Irina Yudina
134	Multi scale numerical approach for micro-cracked viscoelastic masonry	Thi Thu Nga Nguyen, Ngoc Quang Vu, Tri Ta Nguyen and Nam Hung Tran
136	Comparison of the stress-strain state of the reinforced concrete structure under various mathematical models of concrete	Vladimir Dorozhinskiy and Dmitriy Sidorov
137	Six types of enclosing structures for low-storey houses. Economic comparison	Alexandr Ibragimov, Pavel Vechtomov, Peraskovya Andreeva and Aleksandra Popova
141	Influence of chemical additives on the properties of polymer foams	Michail Bruyako, Larisa Grigoreva and Stepan Lvov
142	Investigation of fungicidal activity of biocides by method of direct contact with test cultures	Valeriya Strokova, Viktoria Nelyubova and Marina Rykunova
145	Influence of Size and Construction Schedule of Massive Concrete Structures on Its Temperature Regime	Aniskin Nikolay, Nguyen Trong Chuc and Hoang Quoc Long
152	Pressure distribution and cavitation in counter-vortex flow energy dissipators of hydraulic spillways	Genrikh Orekhov
156	Formation of hypotheses of redevelopment of cultural heritage objects of the residential complex "Krasny Vyborzhets"	Anastasiia Savchuk and Irina Ptukhina
158	Technology of groundwater biological deferrization	Zhanna Govorova, Ekaterina Muraveva, Vadim Govorov and Vasiliy Semenovych
162	Consideration of fire risks in construction on the basis of territories typology	Vladimir Minaev, Boris Korobets, Tuan Dao

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163	Reduction of territorial fire risks based on methods of active systems theory	Vladimir Minaev, Alexander Faddeev, Tuan Dao and Anh Phan
171	Modeling of construction process scheduling with Time Coupling Methods	Zdzislaw Hejducki and Łukasz Łodożyński
172	Design of interacting wells for optimization of investments and operating costs while constructing water-diverting structures	Vladimir Shcherbakov, Alexander Akulshin, Konstantin Chizhik and Mikhail Tolstoy
183	Combined electromachine generators for energy-efficient mini-power plants	Igor Zabora
192	The role of religious architecture in the sustainable development of contemporary cities: traditions and innovations	Pryadko Igor' and Belinskaya Dar'ja
195	Studying the methods for determining and maintaining sustainability of a construction firm	Ivan Abramov and Azary Lapidus
196	Probabilistic landslide risk assessment: Case study of Bujumbura	Gervais Shirambere, Maurice Nyadawa, Jean Pierre Masekanya and Timothy Nyomoi
199	The development of the superelement approach applied to models of rod elements	Oleg Kovalchuk
201	Innovative Method of Urban Planning Management Based on the Mathematical Modelling of the Network Objects	Dmitriy Anufriev, Olga Shikulskaya, Mikhail Shikulskiy and Alyona Naberezhnaya
215	Effect of matrix particle size on EPS lightweight concrete properties	Ly LePhuong and Duc Hoang Minh
217	Seismic margin assessment of a reinforced concrete skewed bridge in a nuclear power plant	Lee Tae Hyung, Nguyen Van Hoa, Phan Van Tien and Nguyen Duy Duan
228	Granulated asphalt mix based on industrial and domestic waste	Aleksey Ignatyev, Denis Gerasimov, Valerij Gotovtsev and Igor Golikov
243	Numerical studies of elastomeric isolator performance under static loads	Oleg Mkrtychev
245	Application of water-organic emulsions for the recovery of asphalt concrete	Nikolai Shestakov and Sergei Putilin
247	Extend Convergence-Confinement Method for deep tunnels in poroelastic anisotropic medium	Nam Hung Tran, Thi Thu Nga Nguyen, Tri Ta Nguyen and Chu Quang Cao
254	Study on the settlement of raft foundations by different methods	Vinh Le Ba, Nhan Nguyen Van and Khanh Le Ba
256	Calibration testing of discs using photoelasticity method	Frishter Ludmila
258	Quantitative GPR inspection of quasi-homogeneous ground layers	Victor Yavna, Zelimkhan Khakiev, Georgy Lazorenko, Anton Kasprzhitskii and Sergey Sulavko
261	Analysis of risks arising in the implementation of BIM - technologies in construction organizations	Nikolay Garyaev
266	Application of BIM modeling for the organization of collective work on a construction project	Venera Garyaeva
286	Energy efficiency and ecological quality of buildings by process control of heat supply systems	Andrey Benuzh, Sergey Fedorov and

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		Ekaterina Orenburova
287	Elimination of polluting nutrients from wastewater	Nina Zaletova
290	Increasing the strength of destroyed wood of wooden architecture monuments by surface modification	Elena Pokrovskaya
296	Modeling of construction waste processing system development	Pavel Oleinik, Tatyana Kuzmina, Viktor Zenov and Vitaliy Melnichuk
297	Simulation of emergency events with fire in virtual road tunnels	Peter Danišovič, Juraj Šrámek and Michal Hodon
305	Mechanical behavior of ballasted railway track stabilized with polyurethane: A finite element analysis	Zelimkhan Khakiev, Alexnder Kruglikov, Georgy Lazorenko, Anton Kasprzhitskii, Yakov Ermolov and Victor Yavna
316	Risks on Optimization of Life Cycle of Technology of Installation of Transformed Low-rise Buildings from Sandwich Panels	Alexander Pleshivtsev, Oleg Korol and Reza Barkhi
329	Problems of using the energy-service contract in Russia	Tatyana Meshcheryakova
331	Numerical models for the elastic halfspace dynamic response due to road traffic load	Daniel Papán and Zuzana Papánová
334	Performance and problems of the housing sphere in Russia	Ekaterina Dmitrieva
335	Audit of design estimates and organizational and technological documentation in the process of construction expertise	Alexey Yurgaytis, Dmitry V. Topchiy and Marina Katasonova
340	Plastic deformations in the ring spherical shells	Avgustina Astakhova
341	Moscow Program Of Renovation Of Housing In The Context Of Inter-Party Competition	Igor Andreev
342	Directions of modernization of systems for ensuring the quality of construction of nuclear power facilities	Pavel Zhuravlev, Evgeniy Bachus and Irina Markova
348	Estimation of cracking of reinforced concrete load-bearing construction structures at the stage of their technical inspection	Anna Malakhova
352	Structurization of poly mineral is highly concentrated poly disperse systems based on organic binders	Eduard Kotlyarsky, Naum Uriev, Yury Vasilev, Vladimir Kochnev and Igor Sarichev
355	Peculiarities of the temperature mode of operation of asphalt in airfield coatings	A. L. Ramos, E. V. Kotlyarsky, Y. E. Vasilev, V. V. Talalay and I Y. Sarichev
357	Numerical simulation of aerodynamics of a high-efficiency orthogonal balanced blade of a wind generator	Valeriy Procopiev, Irina Lantsova and Andry Proskurin
358	Influence of fastening conditions on the deformation of a metal sample when it is stretched	Valeriy Prokopiev, Tatiana Zhdanova and Nerses Simonyan
361	Assessment of the reliability of thermal protection of enclosing structures of buildings at the design and operation stages	Ekaterina Ibe, Galina Shibaeva and Denis Portnyagin
363	Return on investment in the implementation of energy-efficient solutions for facade insulation	Olga Gamaunova and Tatiana Musorina
364	Building informational model management automation	Pavel Chelyshkov

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369	Environmental risk management. Forecasting and modeling of emergency risk management situations	Vitaly Kas'yanov, Vadim Danilchenko, Vasily Amelin and Valeria Tolmacheva
377	Research of the possibilities of application of the Data Warehouse in the construction area	Alexandr Konikov, Ekaterina Kulikova and Olga Stifeeva
378	Newest models and calculation schemes for quantitative analysis of physical properties of polymers	Andrey Askadskii, Tatyana Matseevich and Andrey Matseevich
379	Deformation and power characteristics monolithic reinforced concrete bearing systems in the mode of progressive collapse	Oleg Kabantsev and Bozidar Mitrovic
380	The Effect of Using Palm Kernel Shell Ash and Rice Husk Ash on Geopolymer Concrete	Harianto Hardjasaputra, Ivan Fernando, Judith Indrajaya and Rachmansyah Rachmansyah
381	Model of heat transfer process in soils	Ian Ofrikhter, Alexander Zaharov, Andrey Ponomarev and Natalia Likhacheva
389	Use of Fall Cone Test for the determination of undrained shear strength of cohesive soils	Diogo Canelas, Isabel Fernandes and Maria da Graça Lopes
390	Smart city: convergent socio-cyber-physical complex	Andrey Volkov
391	Digital models in construction: classification paradigm	Andrey Volkov
393	Structure and properties of masonry mortars based on ceramic microspheres	Vyacheslav Semenov