Contents

Contents	2 (103) April	Engineers
BUILDING AND ARCHITECTURE	Scientific-technical peer reviewed journal The Founder — the Federal State Budgetary	
ARCHITECTURE, URBAN PLANNING, DESIGN	Educational Institution	
P. G. Vardevanyan, Ju. A. Protasova. Traditions	and Civil Engineering'	
of experimental and model planning of rural settlements	The Editor-in-Chief Ye. I. Rybnov, Dr. Sci. F	Ec., Professor, Honorary
in Belarus	Worker of Higher Scho (SPSUACE)	ool of the Russian Federation
E. S. Svechkar. Theoretical models as a basis for the formation of typology of youth leisure institutions	Assistants to the Edito	
BUILDING DESIGNS		vard of the Russian Federation Government of the Russian
A. I. Pritykin. Influence of openings on the bearing capacity of perforated beam		Worker of Sciences ion, Academician of RAACS
V. S. Shirokov, T. A. Belash, A. V. Solovyev. Experimental research of intra-module joint stiffness35	of the Russian Enginee of the Government of the	ech., Professor, Full member ering Academy, Winner the Russian Federation,
STRUCTURAL MECHANICS AND CALCULATION	Honorary Builder of R Editorial council	ussia (SPbGASU)
OF STRUCTURES	A. A. Akaev, Dr., Prof., F (Lomonosov Moscow Sta	Foreign Member of the RAS
N. V. Gubareva. Application of generalized functions	L. Ungvari, Dr. Sci., Profe	essor, (Technical University
in determining displacements in beams by the method	of Applied Sciences Wild N. V. Kazhar, Dr. Arch., I	Professor (Częstochowa
of initial parameters43	3 University of Technology G. Kipiani, Dr. Sci. Tech.,	, Poland) Professor (Georgian Technical
D. M. Zhemchugov-Gitman. Introduction of damping	University, Georgia)	
correction factor in response-spectral method of seismic	of SUT (Shushi Universit	Ingineering, Professor, Rector y of Technology, Armenia)
resistance analysis51	J. Eberhardsteyner, Dr. Sc University of Technology	i. Tech., Professor (Vienna v. Austria)
GEOENGINEERING		Tech., Professor (Belarusian
A. V. Kvashuk. Regarding the issue of changing the filtration	Y. Iwasaki, Dr. Sci. Tech.	(Geo-Research Institute, Japan)
properties of oil-contaminated sandy soils	T. Tanaka, Dr. Sci. Tech., (University of Tokyo, Japa	
TECHNOLOGY AND ORGANIZATION OF CONSTRUCTION	A. Zh. Zhusupbekov, Dr. S (L. N. Gumilyov Eurasia)	Sci. Tech., Professor n National University, Astana,
A. V. Kabanov. Problems of synchronizing the rate	Kazakhstan)	,,,
of construction flows during the construction of railway	Editorial Board G. V. Yesaulov, Dr. Arch., Pr	rofessor, Academician of RAACS
infrastructure	4 N. I. Karpenko, Dr. Sci. Te	
M. M. Osmanov. Interaction of related project sections	Honorary Worker of Scien	nces of the Russian Federation,
in the design of a linear metro object82	Academician of RAACS (L. S. Lyahovich, Dr. Sci. Te	NIISF RAACS) ech., Professor, Honorary Worker
BUILDING MATERIALS AND PRODUCTS	of Sciences of the Russian of RAACS (TSUAB)	Federation, Academician
M. S. Ivanova, M. V. Korobchuk, E. S. Vasiutkin,	V. Sargsyan, Dr. Sci. Tech.	, Professor rchitecture and Construction
S. F. Vasiutkin. Comparative assessment of materials	of Armenia)	
for the manufacture of decorative elements for cladding		n., Professor, Winner of the State eration, Winner of the Award
facades of residential buildings93	of the Government of the of RAACS (RAACS)	Russian Federation, Academician
G. R. Faseeva, Yu. A. Zakharov. Ceramic brick hardening	V. S. Fedorov, Dr. Sci. Tech	n., Professor, Academician
by ultrasonic extrusion molding103	of RAACS (MSURE) S. V. Fedosov, Dr. Sci. Tech	ı., Professor, Winner
SANITARY ENGINEERING AND ECOLOGY		rnment of the Russian Federation, nces of the Russian Federation,
N. S. Zaitcev. Dispersion analysis of insoluble impurities	Academician of RAACS (M. I. Alekseev, Dr. Sci. Tec	(IVGPU)
of surface effluents from the territories of motor transport	of the Award of the Gover	rnment of the Russian Federation,
enterprises108	Honorary Worker of Scient Academician of RAACS	nces of the Russian Federation,

Vestnik grazhdanskikh inzhenerov – 2024 2 (103) Bulletin of Civil

G. I. Belyy, Dr. Sci. Tech., Professor, Honorary Worker of Sciences of the Russian Federation E. R. Vozniak, Dr. Arch., Professor T. A. Datciuk, Dr. Sci. Tech., Professor B. N. Karpov, Dr. Sci. Tech., Professor L. N. Kondrat' eva, Dr. Sci. Tech., Professor L. P. Lavrov, Dr. Arch., Professor, Honorary Architect of the Russian Federation, Correspondent Member of RAACS R. A. Mangushev, Dr. Sci. Tech., Professor, Honorary Worker of the Higher School of the Russian Federation, Correspondent Member of RAACS A. M. Maslennikov, Dr. Sci. Tech., Professor, Honorary Worker of Sciences of the Russian Federation Yu. V. Puharenko, Dr. Sci. Tech., Professor, Winner of the Award of the Government of the Russian Federation,	S. Yu, V. P. Verkhoturov, V. M. Vasiliev, Y. A. Feofanov, N. A. Chernikov. Improving the operational efficiency of the mixing chambers of local wastewater treatment plants TRANSPORT U. Sh. Vakhidov, V. S. Makarov, Yu. I. Molev, M. G. Cherevastov. Impact of vehicle conversion aimed at the active vehicle safety	
Correspondent Member of RAACS S. V. Sementsov, Dr. Arch., Professor V. M. Ulyasheva, Dr. Sci. Tech., Professor	in traffic jams	. 133
S. A. Evtyukov, Dr. Sci. Tech., Professor, Honorary Worker of Higher School of the Russian Federation P. A. Kravchenko, Dr. Sci. Tech., Professor, Honorary	ECONOMICS	
Worker of the Higher School of the Russian Federation <i>V. N. Dobromirov</i> , Dr. Sci. Tech., Professor	O. V. Vinogradova. Non-financial reporting as the instrument of contractor pre-qualification process	. 144
Ju. G. Kotikov, Dr. Sci. Tech., Professor A. E. Pushkarev, Dr. Sci. Tech., Professor A. A. Kapustin, Dr. Sci. Tech., Professor R. N. Safiullin, Dr. Sci. Tech., Associate Professor (SPbGASU) V. S. Lukinskiy, Dr. Sci. Tech., Professor (HSE in St. Petersburg)	Gong Junyao, D. Yu. Mironova. Studying the features of the implementation of the concept of industrial symbiosis as a factor in the innovative development of the state: the experience of the People's Republic of China	
V. N. Lozhkin, Dr. Sci. Tech., Professor, Honorary Worker of Sciences of the Russian Federation	CHRONICLE	
(Saint-Petersburg University of State Fire Service of EMERCOM of Russia) A. N. Asaul, Dr. Sci. Ec., Professor, Honorary Builder of the Russian Federation, Honorary Worker of Sciences of the Russian Federation	Yu. A. Skorchenko. To the 150th anniversary of the birth of F. F. Bulatsel, a graduate of the Institute of Civil Engineers	. 166
I. V. Drozdova, Dr. Sci. Ec., Professor V. A. Koshcheev, Dr. Sci. Ec., Associate Professor G. F. Tokunova, Dr. Sci. Ec., Professor	Abstracts	. 170
N. G. Pletneva, Dr. Sci. Ec., Professor A. I. Solodkiy, Dr. Sci. Ec., Professor	Submitting materials requirements	
V. V. Asaul, Dr. Sci. Ec., Professor (SPbGASU) G. F. Shcherbina, Dr. Sci. Ec., Associate Professor CEO (AO SSMO "LenSpetsSMU") L. M. Kaplan, Dr. Sci. Ec., Professor (St. Petersburg Union of Construction Companies) A. A. Rudenko, Dr. Sci. Ec., Professor (MAL) The address of the Founder and the Editorial Office: 2nd Krasnoarmeyskaya St. 4, 190005, St. Petersburg, Russia Ph./ Fax: (812) 316-49-06 E-mail: vestnikspb@mail.ru The contents and abstracts of articles are presented on the site: http://vestnik.spbgasu.ru The journal is registered by the Federal Service for Supervision of Communications, Information Technology and Mass Media (Roskomnadzor). The registration certificate of the mass media organization is ΠИ № ФС77-69753, of 05.05.2017. The journal is included by the Higher Attestation Commission (HAC) of the Russian Federation into the List of leading reviewed scientific journals and editions in which the major scientific results of theses on competition for the academic degree of the Doctor of Science are to be published. In case of reprinting, the link to the "Vestnik grazhdanskikh inzhenerov – Bulletin of Civil Engineers" is obligatory. On the cover one can see the monument to Nicholas I, the Emperor, in honour of whom the Institute of Civil Engineers (nowadays SPbGASU) was named on December 17, 1892.	Subscription rules	180