



Conference Schedule

VI International Scientific Conference INTEGRATION, PARTNERSHIP AND INNOVATION IN CONSTRUCTION SCIENCE AND EDUCATION

(IPICSE-2018)

Organized by:

Moscow State University of Civil Engineering (National Research University)

Supported by:

- Ministry of Science and Higher Education of Russia
- The Foundation for the Development of Construction Education and Science
- Shared Research Facilities of the Moscow State University of Civil Engineering
- The leading Scientific school of Russian Federation - Theory and Analysis of Systems in Construction (System Engineering of Construction)
- National Association of Builders
- Russian Union of Builders
- National Association of Surveyors and Designers
- Federal autonomous institution "Roskapstroy"
- Department of Urban Policy of the City of Moscow
- National Chamber of Engineers
- Journal Vestnik MGSU
- Journal Industrial and Civil Engineering
- The Russian Society of Civil Engineers, Moscow Department

Date: November 14-16, 2018

Venue: Moscow State University of Civil Engineering (MGSU)
129337, 26, Yaroslavskoye Shosse, Moscow, Russia

Main Topics:

- Building materials
- Reliability and safety in construction
- Engineering and smart systems in construction
- Modelling and mechanics of building structures
- Management in construction
- Risk management in construction

Conference Chairs:

- **Prof. Andrey Volkov**, Professor, DSc, Rector of MGSU, Corresponding member of the Russian Academy of Architecture and Construction Sciences, Chairman of the Educational Methodological Universities Association of the Russian Federation on construction education, Head of the scientific school "System Engineering of Construction".
- **Prof. Andrey Pustovgar**, Assoc. Professor, PhD, Vice-rector of MGSU, The scientific supervisor of the Scientific Research Institute of Construction Materials and Technologies, Laureate of the Prize of the Government of the Russian Federation in the field of science and technology, Leading specialist in the field of building materials and modern construction technologies.

International Scientific Committee:

- **Prof. Vladimir Andreev**, Moscow State University of Civil Engineering (Russia), Department of Strength of Materials
- **Prof. Andrey Askadskiy**, Russian Academy of Sciences (Russia), A.N.Nesmeyanov Institute of Organoelement Compounds
- **Prof. Enrico Bernardo**, University of Padova (Italy), Department of Industrial Engineering
- **Dr. Victoria Borkovskaya**, Moscow State University of Civil Engineering (Russia), Department of Housing and Communal Services
- **Dr. Anatolijs Borodinecs**, Riga Technical University (Latvia), Department of Heat Engineering and Technology
- **Prof. Alexey Bulgakov**, TU Munich (Germany), Department of Architecture
- **Prof. Vladimir Burkov**, V.A. Trapeznikov Institute of Control Sciences of RAS (Russia), Laboratory 57 (of active systems)
- **Dr. Alberto Celani**, Politecnico di Milano (Italy), Department of architecture, built environment and construction engineering
- **Prof. Aliaksandr Chychuryn**, The John Paul Catholic University of Lublin (Poland), Department of Modelinf and Computer Simulation
- **Prof. Sofia Maria Carrato Diniz**, Federal University of Minas Gerais (Brazil), Department of Structural Engineering
- **Prof. Michal Fečkan**, Comenius University in Bratislava (Slovakia), Department of Mathematical Analysis and Numerical Mathematics
- **Dr. Isabel Fernandes**, University of Lisbon (Portugal), Department of Geology
- **Prof. Hua Ge**, Concordia University (Canada), Department of Building, Civil and Environmental Engineering
- **Dr. Pierre El Haddad**, Saint Joseph University (Lebanon), Faculty of Management
- **Prof. Knut Hartenstein**, HTW Berlin (Germany), Department FB 2
- **Prof. Roland Heiler**, HTW Berlin (Germany), School of Engineering, Department of Technology and Life
- **Prof. Zdzislaw Hejducki**, Wroclaw University of Science and Technology (Poland), Department of Technology and Management in Civil Engineering
- **Prof. Rudolf Hela**, University of Technology Brno (Czech Republic), Department of Building Materials and Prefabrications
- **Prof. Ivo Herle**, TU Dresden (Germany), Institute of Geotechnical Engineering

- **Prof. Borislav Hristov**, University of Applied Sciences in Berlin (Germany), Department of Engineering Sciences - Transportation
- **Dr. Aleksander Ishkov**, Moscow State University of Civil Engineering (Russia), Department of Social, Psychological and Legal Communications
- **Prof. Denis Jelagin**, KTH University (Sweden), Department of Civil and Architectural Engineering
- **Prof. Stanislaw Jemiolo**, Warsaw University of Technology (Poland), Department of Strength of materials and theory of elasticity and plasticity
- **Dr. Jiangmiao YU**, South China University of Technology (China), Department of Civil Engineering and Transportation
- **Prof. Targo Kalamees**, Tallinn University of Technology (Estonia), Department of Structural Design
- **Dr. Vadim Kanhva**, Moscow State University of Civil Engineering (Russia), Department of Economics and Management in Construction
- **Prof. Amir Kavussi**, Tarbiat Modares University (Iran), Faculty of Civil & Environmental Engineering
- **Prof. Evgeniy Korolev**, Moscow State University of Civil Engineering (Russia), Scientific and education center "Nanomaterials & Nanotechnology"
- **Prof. Markus Krämer**, HTW Berlin (Germany)
- **Prof. Elena Lyapunsova**, Bauman Moscow State Technical University (Russia), Department of Innovative Entrepreneurship
- **Dr. Nikolay Makisha**, Moscow State University of Civil Engineering (Russia), Department of Water Supply and Wastewater Treatment
- **Prof. Tatyana Matseevich**, Moscow State University of Civil Engineering (Russia), Department of Applied Mathematics
- **Prof. Oleg Mkrtychev**, Moscow State University of Civil Engineering (Russia), Department of Reliability and Seismic Resistance of Structures
- **Prof. Vladimir Molkov**, Uister University (Great Britain), Department of Fire Safety Science
- **Prof. David L. Passmore**, Penn State University (USA), Institute for Cyberscience
- **Dr. Reza Barkhi**, Virginia Tech (USA), Department of Accounting and Information Systems
- **Prof. Nicole Riediger**, HTW Berlin (Germany), Department of Technology and Life
- **Prof. Richard L. Roe**, Georgetown University Law Center (USA), Faculty of Law

- **Dr. Jaroslaw Rybak**, Wroclaw University of Science and Technology (Poland), Faculty of Civil Engineering
- **Dr. Vyacheslav Semenov**, Moscow State University of Civil Engineering (Russia), Department of Building Materials
- **Prof. Urpash Shalbolova**, L.N.Gumilyov Eurasian National University (Kazakhstan), Department of Economics and Entrepreneurship
- **Prof. Gintautas Skripkiunas**, Vilnius Gediminas Technical University (Lithuania), Department of Building Materials and Fire Safety
- **Prof. Konstantin Sobolev**, UW-Milwaukee (USA), Department of Civil and Environmental Engineering
- **Prof. Ashot Tamrazyan**, Moscow State University of Civil Engineering (Russia), Department of Reinforced Concrete and Stone Structures
- **Prof. Valery Taranchuk**, Belarusian State University (Belarus), Department of Computer Applications and Systems
- **Prof. Andrzej Ubysz**, Wroclaw University of Science and Technology (Poland), Faculty of Civil Engineering
- **Prof. Svetlana Uvarova**, Voronezh State Technical University (Russia), Department of Economics and Business Basic
- **Dr. Milan Vošta**, University of Economics (Czech Republic), Department of World Economy
- **Prof. Edmundas Zavadskas**, Vilnius Gediminas Technical University (Litva), Department of Construction Technology and Management

Organizing Committee:

Dr. Aleksey Adamtsevich, Michail Leibman, Zamir SHTymov, Dr. Vladimir Grebenshikov, Nataliya Samotesova, Dr. Ekaterina CHEbotaeva, Dr. Nadezhda CHERednichenko, Dr. Oleg Kovalchuk, Dr. Kirill Lushin, Prof. Nikolay Aniskin, Dr. Olga Kuzina, Gennadiy Barov, Dr. Pavel Kapyrin, Dr. Anna Doroshenko, Dr. Vyacheslav Semenov, Dr. Nadezhda Sevryugina, Tatyana ZHDanova, Dr. Tatyana Kisel. Dr. Vitaliy Sidorov, Dr. Aleksandr Aleksanin, Viktor Evstratov, Igor Gulshin, Tatyana Kvitka, Irina Molchanova, Olga Konakova, Pavel Vorobev

Special thanks for information and organizational support:

- Student Scientific Society of the Moscow State University of Civil Engineering

CONFERENCE SCHEDULE

NOVEMBER, 14 26, Yaroslavskoye Sh., Moscow, Russia, 129337		
09:00-10:00	Registration of participants	Assembly Hall
10:00-10:30	Opening ceremony & welcome speeches	Assembly Hall
10:30-13:00	<p>Plenary session: reports of key speakers</p> <p>Prof. Sergey Kuznetsov (Russia), Mathematical models for the Earth seismicity, seismic waves, and seismic protection</p> <p>Dr. Jiangmiao YU (China), Development and Practical Application of High Toughness Ultra-thin Friction Course Technology in China</p> <p>Prof. Alexey Bulgakov (Germany), Synthesis of the AC and DC Drives Fault Diagnosis Method for the Cyber-physical Systems of Building Robots</p> <p>Dr. Anatolijs Borodinecs (Latvia), 3D scanning data use for modular building renovation based on BIM model</p> <p>Dr. Pierre El Haddad (Lebanon), The business case for the socio-economimc approach to management</p> <p>Prof. Andrzej Ubysz (Poland), The model to describe the vibration of a silo's wall during flow loose material</p>	Assembly Hall
13:00-14:00	Lunch	Restaurant Grabli
14:00-18:15	<p>Section «RELIABILITY AND SAFETY IN CONSTRUCTION»</p> <p>Subsection «Safety of buildings and structures under special effects. Ecological safety»</p>	Lecture Hall No1
14:00-19:00	<p>Section «ENGINEERING AND SMART SYSTEMS IN CONSTRUCTION»</p> <p>Subsection «Smart City, technique and technology»</p>	Lecture Hall No3

14:00-19:00	Section «MODELLING AND MECHANICS OF BUILDING STRUCTURES» Subsection «Mechanics of Building Structures»	Lecture Hall No4
14:00-18:30	Section «RISK MANAGEMENT IN CONSTRUCTION» Subsection «Methods and models of risk management»	Lecture Hall No2

NOVEMBER, 15
26, Yaroslavskoye Sh., Moscow, Russia, 129337

09:00-10:00	Registration & welcome coffee	Hall of the Academic Council
09:30-13:00	Section «BUILDING MATERIALS» Subsection «Materials for road construction. Nanotechnology. Production of building materials with industrial waste»	Hall of the Academic Council
10:00-12:30	Section «RELIABILITY AND SAFETY IN CONSTRUCTION» Subsection « Theory of calculation and design of buildings and structures»	Lecture Hall No1
10:00-12:30	Section «MODELLING AND MECHANICS OF BUILDING STRUCTURES» Subsection «Mechanics of Building Structures»	Lecture Hall No4
10:00-13:30	Section «MANAGEMENT IN CONSTRUCTION» Subsection «Economic and social efficiency in construction»	Lecture Hall No3
10:15-12:30	Section «RISK MANAGEMENT IN CONSTRUCTION» Subsection «Sustainability risk management»	Lecture Hall No2
12:30-15:30	POSTER SESSION	Recreation area of the Library
15:00-19:00	Section «BUILDING MATERIALS» Subsection «Increasing the durability of building materials. Test methods. Insulation materials and products»	Lecture Hall No2
15:30-19:00	Section «ENGINEERING AND SMART SYSTEMS IN CONSTRUCTION» Subsection «Energy efficiency in construction»	Lecture Hall No3
15:30-18:00	Section «MODELLING AND MECHANICS OF BUILDING STRUCTURES» Subsection «Mathematical Modelling»	Lecture Hall No4
15:30-18:30	Section «MANAGEMENT IN CONSTRUCTION» Subsection «Organizational-technological decisions in construction»	Lecture Hall No1

NOVEMBER, 16
26, Yaroslavskoye Sh., Moscow, Russia, 129337

09:30-10:00	Registration	Hall of the Academic Council
10:00-12:00	Section «RELIABILITY AND SAFETY IN CONSTRUCTION» Subsection «Theory of calculation and design of buildings and structures»	Lecture Hall No1
09:45-12:00	Section «ENGINEERING AND SMART SYSTEMS IN CONSTRUCTION» Subsection «Energy efficiency in construction»	Lecture Hall No3
10:00-12:00	Section «MODELLING AND MECHANICS OF BUILDING STRUCTURES» Subsection « Mathematical Modelling »	Lecture Hall No4
12:00-13:00	Coffee break	Hall of the Academic Council
13:00-14:00	Closing ceremonies	Hall of the Academic Council

NOVEMBER, 14

SECTION II
RELIABILITY AND SAFETY IN CONSTRUCTION

November 14, 2018

14.00-18.15

Safety of buildings and structures under special effects. Ecological safety

Chairs: Dr. Marek Maj, Prof. Marina Akulova, Prof. Nataliya Fedorova, Dr. Lyudmila Elshina

Submission #	Title of the report	Authors and <u>Speaker</u>
339	Investigation of wooden sheet pile wall in an aggressive environment using non-destructive methods	<u>Marek Wyjadlowski</u> , Tomasz Nowak and Anna Karolak
232	Research on the maximum fire smoke temperature beneath tunnel ceilings using longitudinal ventilation	<u>Hui Yang</u> , Bingyan Dong, Sijian Zhang, Dahui Sun and Kirill I. Lushin
174	Architectural design in accordance with fire requirements for condominiums in Vietnam	<u>Pham Trong Thuat</u>
194	Site control procedures for applicability and quality of Rapid Impulse Compaction	<u>Przemyslaw Dobrzycki</u> and Piotr Rychlewski
306	Features of optimization of model parameters for solving geotechnical problems	Armen Ter-Martirosyan, <u>Vitalii Sidorov</u> and Lubov Ermoshina
281	Determining the stability of slopes in the conditions of transport infrastructure objects construction	Zaven Ter-Martirosyan, <u>Armen Ter-Martirosyan</u> and Vitalii Sidorov

345	Durability of Concrete Reinforced by Specific Rebar	<u>Lyudmila Elshina</u>
301	Experimental studies of wind impact on coke chambers	<u>Vladislav Pomelov,</u> Olga Poddaeva and Pavel Churin
248	The kinetic parameters of aerosols formed during combustion of modified wood	<u>Portnov Fedor</u>
270	Fire-protection of wooden structures by modification in a thin surface layer	<u>Elena Pokrovskaya</u>
257	Experimental observation of visible flame propagation rate in accidental deflagration explosions and explosive load reduction	<u>Nikolay Gromov</u> and Alexander Komarov
236	Influence of the place of the expiration of gases from the placement at the fire for critical time of formation of dangerous factors of the fire	<u>Evgenia Chelekova</u>
282	Particular aspects of calculating affecting factors of fireballs emerging from aircraft crash	<u>Nikolay Gromov</u> and Alexander Komarov
85	Algorithm for calculation of channel deformation in soils of various graininess	<u>Anna Khodzinskaya</u>
353	Definition of the inspection criteria for personal protective equipment (for work at heights) on example of full body harnesses	V Vasilenko, D Korolchenko and <u>P N Thanh</u>

SECTION III
ENGINEERING AND SMART SYSTEMS IN CONSTRUCTION

November 14, 2018

14:00-19.00

Smart City, technique and technology

**Chairs: Prof. Knut Hartenstein, Prof. Deane Thomas, Prof. Nataliy Baurova,
Prof. Vladimir Zorin**

Submission #	Title of the report	Authors and <u>Speaker</u>
401	Anti sway crane control Systems based on Fuzzy logic	<u>Knut Hartenstein</u>
385	Building Information Modelling in Agile Environments - an Example of Event Management at the Airport of Tempelhof	<u>Zsuzsa Besenyői,</u> Markus Krämer and Faraz Hussain
241	Sustainability of multi skin facades	Kirill Lushin and <u>Yang Hui</u>
33	Assessment of means of mechanization of construction risks using catastrophe theory	<u>Vladimir Zorin</u> and Natali Baurova
40	Determination of the granulometric composition parameters of the grinding product in a ball mill	<u>Rashid Sharapov</u>
22	Computer modeling influence lines of farm elements	<u>Evgenij Kudryavtsev</u>
111	Determination of the magnetic separator separation function	<u>Evgeniy Kharlamov</u>

61	Possibilities of applying structural optimization in building structures computer-aided design systems	<u>Andrey Vasilkin</u>
21	Choice of parameters of oscillatory actions in the molding of reinforced concrete products	<u>Vitaly Vasiliev</u>
402	The Adoption of Location-Based Management System to Improve Economic Sustainability as a Mechanism to Integrate Lean Theories in Sustainable Construction	Ammar Al-Saleh and <u>Nicole Riediger</u>
153	On Deformability of Crane Metallic Structures	<u>Anatoly Vershinsky,</u> Aleksandr Shubin and Aleksandr Masyagin
206	Intelligent Management of High-Technology Equipment for the Manufacture of Concrete and Ceramic Materials and Products	<u>Konstantin Galitskov</u>
65	Resource verification of construction objects having increased importance level	Pavel Kapyrin and <u>Nadegda Sevryugina</u>
50	Reliability and Safety of Vertical Transportation Use	<u>Michail Stepanov,</u> Batraz Kaytukov and Ayub Mechiev
114	Classification and determination of working area of concrete placing booms	<u>Yevgeny Koshkarev</u>
205	Improvement of assembly technique efficiency for installation of buildings and related structures in light building constructions	<u>Anatoliy Drozdov</u>
53	Determination of the aerodynamic characteristics of a concentrator with adjustable parameters	Rashid Sharapov and <u>Aleksandr Agarkov</u>

99	Justification of the air separation curve	<u>Rinat Sharapov</u>
403	Artificial Intelligence in (Civil) Engineering	<u>Matzka, Stephan</u>
83	On traction performance improvement for wheeled earth-moving machines	<u>Vladimir Zhulay,</u> Vitaliy Tyunin and Denis Bobrov
60	Optimization of flat-oval pipes and perspectives of their application in beam structures	<u>Alexander Marutyan,</u> Tamazi Kobaliya and Evgeny Galdin
239	Smart city: automatic reconstruction of 3D building models to support urban development and planning	Nina Danilina, Mihail Slepnev and <u>Spartak Chebotarev</u>
368	Synthesis of the AC and DC Drives Fault Diagnosis Method for the Cyber-physical Systems of Building Robots	<u>Alexey Bulgakov,</u> Tatiana Kruglova and Thomas Bock
384	Modification of vibratory technology for sustainable construction works	Oleksandra Lohunova and <u>Marek Wyjadłowski</u>
225	Three-dimensional information modeling in the preservation of objects of cultural heritage	<u>Tatiana Tsitman</u> and Kseniia Proshunina
58	Optimization of flat-oval pipes and perspectives of their application in core structures	<u>Alexander Marutyan,</u> Tamazi Kobaliya and Evgeny Galdin

SECTION IV
MODELLING AND MECHANICS OF BUILDING STRUCTURES
November 14, 2018
14:00-19.00
Mechanics of Building Structures

Chairs: Prof. Vladimir Andreev, Prof. Boris Mironov, Dr. Jaroslaw Rybak

Submission #	Title of the report	Authors and <u>Speaker</u>
23	Modeling of Plasticity and Creep under Variable Stresses	<u>Vladimir Andreev</u> and Georgy Urumov
73	Verification of the reinforced concrete column bar model based on the test results	Oleg Mkrtychev, Marina Dudareva and <u>Mikhail Andreev</u>
54	Interaction of the base and construction under seismic action, with considering various characteristics of soil damping	<u>Evgeny Sobolev</u> and Armen Ter-Martirosyan
72	Verification of the eccentrically compressed reinforced concrete column calculation model based on the results of a full-scale experimental study	<u>Mikhail Andreev</u> , Sergey Bulushev and Marina Dudareva
252	Influence of the binder filtration on residual stresses at the composite constructions manufacturing	Andrei Sergeev, <u>Robert Turusov</u> , Arkadiy Gorenberg and Alexandr Kuperman
100	Static calculations of the pipeline under sanitation by means of "pipe-in-pipe" method	<u>Oleg Primin</u> , Sergey Zotkin and Grigory Gromov
122	Simulating seismic impacts using vibrating machines	<u>Avetik Abovyan</u>

166	Effective characteristics of a layered tube consisting of elastic-creeping materials	<u>Tatiana N. Bobyleva</u> and Alexei S. Shamaev
167	The research of dynamic impacts on the hydraulic structure foundation base, transformed in the process of accident recovery	Zaven Ter-Martirosyan, Armen Ter-Martirosyan and <u>Ivan Luzin</u>
193	Load carrying capacity of castellated I-beam in the elastoplastic formulation problem	<u>Oleg Goryachevskiy</u>
214	Influence of the new construction to settlement of historical building when accounting hardening of medium sand in basement	<u>Dmitriy Chunyuk</u> and Daria Rasskazova
250	Dispersive waves in functionally graded plates	Alla Ilyashenko and <u>Sergey Kuznetsov</u>
150	A long-term strength of constructive materials	<u>Evgeny Larionov</u>
151	The choice of soil models in the design of deep excavation in soft soils of Viet Nam	<u>Nguyen Van Hoa</u> and Nadezhda Nikiforova
238	Design of FRP belts for building retrofitting	<u>Oleg Simakov</u>

SECTION VI
RISK MANAGEMENT IN CONSTRUCTION
November 14, 2018
14.00-18.30

Methods and models of risk management

Chairs: Prof. Pierre El Haddad, Prof. Elena Korol, Prof. Elena Lyapunsova

Submission #	Title of the report	Authors and <u>Speaker</u>
89	Domestic and foreign experience of using soft fitting structures in tent equipment	<u>Boris Strigin</u>
323	Qualitative Risk Assessments in Project Management in Construction Industry	<u>Vladimir Burkoy</u> , Irina Burkova and Reza Barkhi and Mikhail Berlinov
265	Investment Risks in the Field of Social Entrepreneurship	<u>Elena Lyapunsova</u> , Iulia Belozeroval, Ilona Drozdova and Marina Berlinova
370	Integration of organizational-technological and social aspects in the realization of the program of renovation of residential development	Elena Korol, <u>Yuliya Gaidysheva</u> and David Passmore
98	A new frontier in construction investments: Data Centres and technical factors affecting risk profile	<u>Alberto Celani</u> , Stefano Bellintani and Gianandrea Ciaramella
210	Ecological and Economic Risks of Fire Protection of Warehouses and Tank Parks	Evgeniy Degaev, <u>Anton Orlov</u> , Pierre El Haddad and Alexander Pleshivtsev
218	Culture specific words as a barrier in cross-cultural communication in construction business	<u>Tatiana Ivanova</u>

227	Potential risks in cross-cultural communication in construction	<u>Oksana Danchevskaya</u>
237	Reduction of Ecological and Economic Risks in Utilization of Solid Domestic Wastes and Construction Waste	<u>Victoria Polyakova</u> , Evgeniy Degaev, Pierre El Haddad and Grigory Afanas'ev
309	Thought experiments in construction risk management: capacities and limits	Taras Varkhotov and <u>Kira Alasania</u>
45	Application of High-tech Solutions in Ecodevelopment	Oleg Korol, <u>Natalia Shushunova</u> , Dmitry Lopatkin, Alexey Zanin and Tatiana Shushunova
208	Risk management to ensure the exploitation reliability of high-rise buildings	Marina Dement'Eva, <u>Ilya Terekhin</u> and Anastasiya Lebedeva
229	System-technical fundamentals of the structure of state construction supervision in the re-profiling of big urban area	<u>Dmitriy Topchiy</u> and Andrey Tokarsky
293	An exploration of text mining of narrative reports of injury incidents to assess risk	<u>David Passmore</u> , Chungil Chae, Yulia Kustikova, Rose Baker and Jeong-Ha Yim
319	Project Management Risks in the Sphere of Housing and Communal Services	<u>Victoria Borkovskaya</u>

NOVEMBER, 15

SECTION I
BUILDING MATERIALS

November 15, 2018

09:30-13.00

Materials for road construction. Nanotechnology. Production of building materials with industrial waste

Chairs: Prof. Borislav Hristov, Dr. Jiangmiao YU, Dr. Olga Lyapidevskaya

Submission #	Title of the report	Authors and <u>Speaker</u>
11	Master Function for Analytical Determination of the Interlayer Bond Shear Stiffness and Fatigue Functions for Asphalt Pavements	<u>Borislav Hristov</u>
48	Technological Features of Production Calcium-Alginate Microcapsules for Self-Healing Asphalt	<u>Sergey Inozemtcev</u> , Evgeniy Korolev
387	Application of Warm Asphalt Rubber as a Sustainable Paving Material in Hong Rong	<u>Huayang YU</u>
299	Research of Heat Generation of Cement Used in Construction of Bridge Through Kerchen Strait	Vasily Korovyakov, <u>Ivan Pulyaev</u> , Sergey Pulyaev, Anatoliy Sitkin, Mariya Makarova
285	Design of Nanomodified Intumescent Polymer Matrix Coatings: Theory, Modeling, Experiments	<u>Alexandr Evstigneev</u> , Vladimir Smirnov, Evgenij Korolev
253	The Investigation of Multi-Walled Carbon Nanotubes Dispersion and its Influence on Rheological Properties of Cement Systems	Gintautas Skripkiunas, <u>Ekaterina Karpova</u> , Grigory Yakovlev

347	Self-Compacting Concrete Made with the Use of Local Raw Materials and Industrial Wastes	Irina Endzhievskaya, Dmitry Shvaenko and <u>Ksenya Andriyanova</u>
272	Feasibility Study of the Utilization of Waste Basalt Rebars as Fibre Reinforced for Concrete	Tomasz Kowalik, Dominik Logoń, <u>Andrzej Ubysz</u>
374	Efficient Modified Concrete for Irrigation And Drainage Facilities Construction	Evgeniya Tkach, <u>Yuliya Sadchikova</u>
298	Use of Waste in Production of Thermal Insulating Slabs	<u>Ilya Morozov</u> , Anna Loktionova, Nadezhda Galtseva, Vasily Korovyakov
78	Impact of the degree of grinding of siliceous opoka-like rocks on properties of ceramic products	<u>Yuliya Terekhina</u> , Yuliya Bozhko, Kira Lapunova, Lyudmila Postoi
360	The Use of Pulverized Wastes of Basalt Production as a Filler of Gypsum Compositions	<u>Victoria Petropavlovskaya</u> , Andrey Pustovgar, Aleksandr Buryanov, Tatiana Novichenkov, Mariya Zavad'Ko
147	The Decline of Combustibility of Heat-Insulating Composite Plates from Plant Wastes	Alexandr Ibragimov, <u>Irina Susoeva</u> , Andrey Titunin, Tatiana Vachnina

SECTION I
BUILDING MATERIALS

November 15, 2018

15.00-19:00

Increasing the durability of building materials. Test methods. Insulation materials and products

Chairs: Prof. Konstantin Sobolev, Prof. Gintautas Skripkiunas, Dr. Olga Lyapidevskaya

Submission #	Title of the report	Authors and <u>Speaker</u>
400	Innovative Concrete for Transport Infrastructure	<u>Konstantin Sobolev</u>
165	Effect of Additives on Hydration and Hardening of Magnesia Compositions	<u>Olga Miryuk</u>
178	Physicochemical Properties of Silicate-Calcium Micro-Filler Obtained by Thermolysis of Calcium Hydrosilicates Stabilized with Sucrose	<u>Evgeny Shoshin,</u> Yuri Ivashchenko
202	Effect of Polycarboxylate and Polyarylate Surfactants on Corrosion of the Steel Reinforcement Embedded in the Concrete	<u>Linar Talipov,</u> Evgeny Velichko
190	Complex approach to the study of modern concrete characteristics	<u>Maria Dmitrieva,</u> Vladimir Leitsin, Anastasiia Sharanova and Alexander Tovpinets
263	Influence of Steam Curing on Fiber-Reinforced Concretes During Hardening	Vadim Soloviev, <u>Marsel Nurtdinov,</u> Sergey Belikov, Evgeniy Matyushin

Submission #	Title of the report	Authors and <u>Speaker</u>
375	Multicomponent Cement Systems with Multilevel Optimization of the Disperse Composition	Evgeniy Velichko, <u>Ekaterina Shokodko</u>
176	The Informative Nature of the Tests For Evaluating the Processability of a Steel Product	Alexander Shuvalov, Alla Katanina, <u>Oleg Kornev</u>
181	Optimal Control Time Evaluation for “Dry DSM” Soil-Cement Composites	Monika Kiecana, Piotr Kanty, <u>Klaudia Łużyńska</u>
191	Preliminary Results of Dry Deep Soil Mixing Soil-Cement Composite Testing	<u>Klaudia Jendrysik</u> , Monika Kiecana, Hubert Szabowicz
30	Technology of Production of Polystyrene Concrete Using Solar Energy	<u>Lyazat Aruova</u> , Nabi Dauzhanov, Zhumabeke Ospanova, Shamshygaim Toleubayeva, Aizhan Utkelbaeva
101	Investigation of Activated Aluminum as a Component of Cellular Concrete with Complex Porosation	<u>Viktoria Nelyubova</u> , Valeriya Strokova, Artem Sumin
108	Insulation Systems in Light of Polyethylene Foam Application	<u>Sergey Kozlov</u> , Ekaterina Zinovieva, Ekaterina Fomina, Armen Ter-Zakaryan, Alexey Zhukov, Vyacheslav Semenov

Submission #	Title of the report	Authors and <u>Speaker</u>
140	Thermal Insulation: Operational Properties and Methods of Research	Ekaterina Zinoveva, Alexey Zhukov, <u>Tatiana</u> <u>Konoval'tseva</u> , Kazbek Ivanov, Ekaterina Bobrova
84	Analysis of Specificity of ecological insulation material thermal Parameters	<u>Baiba Gaujena</u> , Jelena Tihana, Anatolijs Borodinecs, Vladislavs Agapovs

SECTION II
RELIABILITY AND SAFETY IN CONSTRUCTION

November 15, 2018

10:00-12.30

Theory of calculation and design of buildings and structures

Chairs: Prof. Andrzej Ubysz, Prof. Ashot Tamrazyan, Dr. Sergey Savin

Submission #	Title of the report	Authors and <u>Speaker</u>
264	Durability of polyurethane - cement floors	<u>Marek Maj</u> , Andrzej Ubysz and Ashot Tamrazyan
367	How vibrations affect steel-to-concrete adherence	<u>Anna Wojtowicz</u> , Andrzej Ubysz and Jarosław Michałek
373	Cold thread Forming – the chipless alternative for high resistant internal threads	<u>Roland Heiler</u>
366	FRCM composites mesh anchorage – a way to increase strengthening effectiveness	<u>Filip Grzynski</u> , Dorota Marcinczak, Tomasz Trapko and Michał Musiał
271	Cross section structure influence to deformation of construction at accidental impacts	Vitaly Kolchunov, Natalia Androsova and <u>Sergey Savin</u>
392	Gaze Behaviour of Cyclists on Intersections in Berlin	<u>Burcu Ocak</u>
86	Assessment of reliability and accident risk for industrial buildings	<u>Mikhail Permyakov</u> , Aleksander Ilyin, Vladimir Andreev, Konstantin Voronin and Tamara Krasnova

64	Effect of basalt fibres on the parameters of fracture mechanics of MB modifier based high-strength concrete	<u>Makhmud Kharun</u> and Dmitry Koroteev
154	About dependence of parameters of internal explosion on the device of safety designs in apertures of the protecting walls of the production and residential buildings	<u>Vycheslav Gorev</u>
29	Fine grained concrete structures reliability assessment: theory and investigational studies	Parfenov Sergey, Alekseytsev Anatoliy and <u>Vinokurov</u> <u>Yuriy</u>

SECTION III
ENGINEERING AND SMART SYSTEMS IN CONSTRUCTION
November 15, 2018
15:30-19.00

Energy efficiency in construction

Chairs: Dr. Anatolijs Borodinecs, Dr. Nikolay Makisha, Dr. Elena Gogina

Submission #	Title of the report	Authors and <u>Speaker</u>
15	3D scanning data use for modular building renovation based on BIM model	<u>Anatolijs Borodinecs</u> , Jurgis Zemitis, Modris Dobelis and Maris Kalinka
317	Investigation of losses of infiltration by the basis of data on aerodynamic parameters of the building object	<u>Julia Gribach</u> , Pavel Churin and Dmitriy Gribach
133	Experimental studies of the transporting capacity of the pipe textured relief trays	<u>Vladimir Orloy</u> and Irina Dezhina
203	Modeling of processes of wastewater treatment from nitrogen compounds in the trickling biofilter	Elena Gogina and <u>Olga Yantsen</u>
274	Comparative Performance of Tetraphosphonate and Diphosphonate as Reverse Osmosis Scale Inhibitors	<u>Alexey Andrianov</u> , Maria Danilycheva, Stefania Liakaki-Stavropoulou, Konstantinos Demadis and Roman Efremov
277	A complex of treatment facilities for the neutralization of surface run-off from urban territories	Oleg Primin, <u>Galina Varyushina</u> and Andrey Ten

231	Deodorization of water at water treatment plants in the lower Volga with activated anthracite	<u>Liudmila Boronina</u> , Russlan Israilov and Valerii Fomichev
312	Influence of the channel arrangement for the passage of the coolant on the heat transfer process of a convective heater	<u>Samvel Sargsyan</u> and Viktoria Borisova
213	Deflector role in formation of apartment air exchange of the multistorey building	<u>Kaminat Agakhanova</u>
12	Multi-criterion parameters optimization of the heat exchanger element air heating system of a building	<u>Andrei Melekhin</u>
63	Effect of climate change on the annual energy consumption of a single family house in British Columbia	<u>Fuad Baba</u> and Hua Ge
36	A mathematical model for the calculation of the thermal regime of the underground tunnel	<u>Dmitriy Titkov</u> and Yarkov Ilya
96	Estimation of energy efficiency of water heating systems in terms of electricity consumption	<u>Sergey Usikov</u>
123	Determination of high-pressure pipeline cyclization degree with exploratory technique	<u>Aleksey Klochko</u> and Viktor Zhila
186	On the mutual influence of local resistances in the distribution of ventilation air	Alexey Kashurkin and <u>Vitaly Prokhorov</u>
110	The Estimation Method of the Ozone Treatment Effectiveness of Wastewater Containing Dyes	<u>Stanislav Alekseev</u> and Daria Pipko

SECTION IV
MODELLING AND MECHANICS OF BUILDING STRUCTURES
November 15, 2018
10:00-12.30
Mechanics of Building Structures

Chairs: Dr. Jaroslaw Rybak, Prof. Lyudmila Phrishter, Prof. Vladimir Filatov

Submission #	Title of the report	Authors and <u>Speaker</u>
7	Application of additive technology for the study of resonance oscillations in structures	<u>Evgeny Yurchenko</u> , Helen Yurchenko and Konstantin Makarov
88	Increasing the reliability of the soil slopes design using evolutionary modelling	<u>Prokurov Maxim</u> , Indykin Alexander and Aleksyeyev Anatoliy
161	Torsion of anisotropic and non-uniform cylindrical rods with elliptical section	<u>Boris Mironov</u> and Yuriy Mironov
43	Optimization of HF waves energy source for thermal treatment of building materials	<u>Irina Vorotyntseva</u>
164	First results of pipe pile static load test in small laboratory scale	Michał Baca and <u>Jarosław Rybak</u>
125	Dynamic force analysis of a six-link planar mechani	<u>Algazy Zhauyt</u> , Yertugan Umbetkulov, Yerlan Yeleukulov, Alfiya Atalykova, Gulbarshyn Smailova, Gulmira Iskakova and Gulama- Garip Alisher Ibrayev

350	Determination of pressure in the near-ground space pile terminated and broadening of the surface	<u>Natalia Kupchikova</u>
388	Layered composite and contact layer. Normal separation and transversal strength	<u>Vladimir Andreev,</u> Robert Turusov and Nikita Tsybin

SECTION IV
MODELLING AND MECHANICS OF BUILDING STRUCTURES
November 15, 2018
15:30-18:00
Mathematical Modelling

Chairs: Prof. Tatyana Matseevich, Dr. Viktor Orlov, Prof. Aleksandr Chichurin

Submission #	Title of the report	Authors and <u>Speaker</u>
39	Convective-diffusion model of particle deposition in modeling of building structures	<u>Vadim Akhmetov</u> and Valentina Akhmetova
337	New computer technologies, analysis and interpretation of geodata	<u>Valery Taranchuk</u>
69	Mathematical modeling of emergency situations at objects of production and gas transportation	<u>Victor Orlov</u> , Elena Detina and Oleg Kovalchuk
107	Presence of Basic Oscillatory Properties in the Bagley-Torvik Model	Temirkhan Aleroev and <u>Ludmila Kirianova</u>
170	Probabilistic approach to the investigation of the causes of emergencies at the gas pipeline facilities	<u>Victor Orlov</u> and Elena Detina
34	The creation of a computational model of corrugated beams using the author's program "GOPRO"	<u>Vadim Alpatov</u> , Alexey Lukin and Irina Laguta
74	Integration of second order linear differential equations in elementary functions, example from quantum-mechanics	<u>Alexander Chichurin</u> and Viktor Red'kov

157	Realization of reinforced concrete structures analysis with the account of physical and geometrical nonlinearity in computer program PRINS	<u>Vladimir Agapov</u>
159	Simulation of the Building Materials Production Process	<u>Olga Vasil'eva</u>
207	Numerical methods for calculation of compound rods	<u>Bulat Kuzhin</u>

**SECTION V
MANAGEMENT IN CONSTRUCTION**

November 15, 2018

10:00-13:30

Economic and social efficiency in construction

Chairs: Dr. Olga Kuzina, Prof. Svetlana Uvarova, Prof. Tatiana Tereshkina, Prof. Natalia Verstina, Dr. Elena Vasilyeva

Submission #	Title of the report	report Authors and <u>Speaker</u>
382	Conceptual approach to the formation of innovation strategies of economic systems of the micro- and meso-level based on self-organization	<u>Svetlana Uvarova</u> , Anatoly Bukreev and Vyacheslav Vlasenko
75	Innovations as a necessary factor of resource potential of social and economic systems development	<u>Maria Zakirova</u> , Sergey Grachev and Svetlana Nikonorova
177	Problems of Implementing Innovative Solutions in The Organizations of Construction	<u>Maria Rakhova</u> and Svetlana Nikonorova
235	The deficiency of dispute settlement mechanism seen in Chinese construction field from FIDIC	<u>Dezhi Li</u> , Huiyan Zhang and Xuehua Fang
230	Socio-psychological aspects of innovation behavior of workers in construction organizations	<u>Mikhail Leontev</u>
189	Job placement for graduates as staff training criteria for construction industry at the current stage (by the case Immanuel Kant Baltic Federal University)	<u>Lidiia Shershova</u> , Irina Nuzhina and Evgeny Kurochkin.
279	Development Of The Principles Of "Green" Logistics In The Cities Of The Russian Federation	<u>Natalia Verstina</u> , Tatiana Tereshkina and Marina Treyman

292	Public hearings as a form of citizen's participation in the management of urban development: the analysis of the World experience	Zinaida Ivanova and <u>Nina Danilina</u>
376	Design quality assurance in cultural heritage restoration	<u>Konstantin Tsvetkov</u> and Tatyana Volchenko
303	Methodical approach to the substantiation of alternative modules for managing the development of territorial production complexes	Ariadna Kirillova and <u>Anna Belyakova</u>
219	The Assessment of the Prospects for the Creation of a Single Economic Site in the Territory of the Central Federal District in order to Develop Cluster Elements in the Field of Construction	<u>Maria Zakirova</u> and Maria Rakhova
222	Management of the LCC considering industrial construction life cycle contracts	Petr Grabovy and <u>Alexandr Orlov</u>
275	Management Of The Sustainable Development Of Heating Systems Construction During Changes Of The Conditions Of The Assessment	Natalia Verstina and <u>Evgeny Evseev</u>
304	Analysis of problems and support for solutions related to phases and critical points in the cycle of reproduction of industrial real estate	Petr Graboviy and <u>Sergei Beliakov</u>
224	Development of the Institutional and Economic Mechanism for Managing the Regional Real Estate Market	Tagir Hametov and <u>Irina Ishamyatova</u>
372	Main Directions Of "Smart City" Development In The Republic Of Kazakhstan	<u>Urpash Shalbolova</u> and Zita Kenzheliyeva

SECTION V
MANAGEMENT IN CONSTRUCTION

November 15, 2018

15:30-18:00

Organizational-technological decisions in construction

Chairs: Dr. Olga Kuzina, Prof. Alexey Bulgakov, Prof. Alexander Ginzburg, Prof. Nicole Riediger, Dr. Elena Vasilyeva

Submission #	Title of the report	report Authors and <u>Speaker</u>
349	Integration of Lean Management Methods in Construction and the Building Information Modelling	<u>Alexey Bulgakov</u> and Thomas Bock
10	The main trends of computer-aided design systems development	Alexander Ginzburg, <u>Leonid Shilov</u> and Liubov Shilova
18	Organizational-technological decisions in construction based on neural network models	<u>Iaroslav Zharov</u>
333	Development of organizational and technological solutions for implementation of Projects of production for construction companies of different countries	Tatiana Poznahirko, Vitaliy Chulkov, <u>Diana Zueva</u> and Evgeniy Babushkin
325	Application of the integrated decision support system for scheduling of development projects	Vitaly Berezka
295	Integrated approach to the reconstruction of industrial enterprises	Pavel Oleinik, <u>Nadezhda Cherednichenko</u> , Vitaliy Melnichuk and Anastasiya Bulycheva

308	Formal description model management of cluster structures in construction	<u>Alexey Bobin</u> and Sergey Sborshikov
175	Organization of the integrated control of the implementation of sophisticated construction projects	<u>Dmitriy Leybman</u> , Sergey Sborshchikov and Elizaveta Kochenkova
187	Organizational and technological solutions justifying use of non-destructive methods of control when building monolithic constructions of civil buildings and structures	Azariy Lapidus, <u>Alan Khubaev</u> and Tembot Bidov
251	Planning of design works and formation of the initial permissive documentation for projects of general education institutions	<u>Aleksandra Popova</u> , Alexey Jurgaitis and Pavel Oleynik
336	Methods for the formation and optimization of calendar plans for construction companies	Pavel Oleinik, <u>Alexey Yurgaytis</u> , Galina Voronina and Alisa Makarenko
169	Assessment of factors affecting the performance of concrete cutting of building structures.	<u>Andrey Kosolapov</u>

SECTION VI
RISK MANAGEMENT IN CONSTRUCTION
November 15, 2018
10.15-12.30
Sustainability risk management

Chairs: Prof. Richard Roe, Dr. Victoria Borkovskaya, Prof.Vladimir Burkov

Submission #	Title of the report	Authors and <u>Speaker</u>
328	Using a Case Study Interactively to Teach Sustainability Risk Management	<u>Richard Roe</u> , Walter Bardenwerper and Victoria Borkovskaya
46	Integrated information support for the production and services on the basis of open technical vocabulary	<u>Vera Cherkina</u>
47	Application of BIM-technologies in tasks of quality management and labour safety	<u>Vera Cherkina</u> , Natalia Shushunova and Julia Zubkova
77	Simulation modeling for urban ecology maintenance of environmental comfort level – evidence from the city of Rostov-on-Don	Svetlana Sheina and <u>Karina Yudina</u>
262	Innovative technological solutions to ensure the reliability of operated buildings	<u>Nadezhda Smirnova</u> and Serafima Sokova
300	Possible risks in construction of the facility in cramped conditions	<u>Aleksandr Aleksanin</u>
302	Risks in housing and communal services and major repairs program for apartment buildings in Moscow. Experience of the first years of implementation	<u>Artem Davidyuk</u> and Igor Rummyantsev

321	Safe operation and reconstruction of urban water bodies in the park complexes	Aleksandra Ostyakova and <u>Yekaterina Plyusnina</u>
394	Entrepreneurial Risks in the Realities of the Digital Economy	<u>Elena Lyapuntsova,</u> Yulia Belozerova, Ilona Drozdova, Grigory Afanas'ev, Elena Okunkova

NOVEMBER, 16

SECTION II
RELIABILITY AND SAFETY IN CONSTRUCTION

November 16, 2018

10:00-12.00

Theory of calculation and design of buildings and structures

Chairs: Prof. Andrzej Buys', Prof. Shot Tamrazyan, Dr. Sergey Savin

Submission #	Title of the report	Authors and <u>Speaker</u>
268	Features of calculation and design of complex concrete monolithic slabs	Vitaliy Kuznetsov and <u>Yulia Shaposhnikova</u>
314	Comparative deformability of compressive members reinforced with steel and GFRP reinforcement	<u>Andrey Lapshinov</u> and Pavel Deminov
356	Comparative tests for horizontal stiffness of elastomeric bearings	Aleksandr Shuvalov, Larisa Safina and <u>Mikhail Kovalev</u>
386	Seismic stability of the 20-storey reinforced concrete frame building by various normative documents	<u>Levon Avetisyan</u>
243	Numerical studies of elastomeric isolator performance under static loads	<u>Oleg Mkrtvchev</u>
315	Modular system in the development of pre-school buildings	Olga Shirokova and <u>Alena Pavlyuk</u>
351	Using of carbon fiber fabric for reinforcement the walls of the aerated concrete blocks in buildings, constructed in seismic regions	<u>Bulat Dzhamuev</u>
71	Applying the dimensional method for valuation of the strength loss of cement compositions exposed to elevated temperatures	<u>Nikita Levashov</u> , Marina Akulova, Olga Potemkina, Alla Sokolova and Yulia Sokolova

SECTION III
ENGINEERING AND SMART SYSTEMS IN CONSTRUCTION
November 16, 2018
9.45-12.00

Energy efficiency in construction

Chairs: Dr. Yang Hui, Dr. Nikolay Makisha, Dr. Elena Gogina

Submission #	Title of the report	Authors and <u>Speaker</u>
79	Features of gas excretion in wastewater treatment processes by the method of electroflotation	<u>Evgeny Alekseev</u> and Nadezhda Stashevskaya
124	Influence of the iteration step size to finding solutions	<u>Aleksey Klochko</u> and Asmik Klochko
371	Energy efficiency of housing as a tool for sustainable development	<u>Vasiliy Stoikov</u> and Violetta Gassiy
310	Pipeline stress analysis and load-bearing capacity analysis in the context of trenchless renovation of sewer networks	<u>Roman Hurgin</u> and Nikita Bychkov
280	Software analysis for the hydraulic calculation of storm-water drainage gravity-flow networks comprising electronic model development	<u>Grigory Gromov</u> , Andrey Ten and Darya Khudyakova
49	Energy-efficient solar power plants for autonomous heat supply in Russia	<u>Pavel Khavanov</u> and Anatoly Chulenyov

SECTION IV
MODELLING AND MECHANICS OF BUILDING STRUCTURES
November 16, 2018
10:00-12.00
Mathematical Modelling

Chairs: Prof. Vyacheslav Taranchuk, Prof. Aleksandr Chichurin, Dr. Daniel Papan

Submission #	Title of the report	Authors and <u>Speaker</u>
221	Tsunamis in the East Sea and damages to the coastline of Vietnam	Izmail Kantarzhi and <u>Hai Hoa Nguyen</u>
383	Optimisation of the Orchestra Pit Acoustics in Opera Houses by Acoustical Simulations using the Finite Element Method	Jan Michael Kimmich, Anton Schlesinger, Martin Ochmann and <u>Stefan Frank</u>
220	Calculation of wave conditions in water area with sharp bottom unevenness	Igor Kantardgi and <u>Alexander Gogin</u>
343	Methods for calculating the reinforcement of concrete slabs with carbon composite materials based on the finite element model	<u>Vladimir Rimshin</u> and Ekaterina Kuzina
112	Calculation of a beam on an inhomogeneous basis	<u>Nikolaj Atarov</u>
179	Numerical modeling of wind waves affected the marine structures in the Kola Bay	<u>Aleksandr Anshakov</u> and Izmail Kantarzhi
332	Application of the successive approximation method to the analysis of bending plates	Radek Gabbasov, Vladimir Filatov and <u>Nikita Rvasny</u>

POSTER SESSION

November 15, 2018

12:30-15:30

Submission #	Title of the report	Authors
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 Tshipurskiy
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 Svekov, Vladimir Smetanin and Nguyen Dinh Dap
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
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 Gribanov, 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 basic of territories typology	Vladimir Minaev, Boris Korobets, Tuan Dao and Anh Phan
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 Lukasz 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 Nyomboi
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 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, Alexander 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
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	Hariato 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

Работа семинаров

14 ноября 2018 г.
г. Москва, Ярославское шоссе, 26

13.00 –
17.00

СЕМИНАР 4 СИСТЕМОТЕХНИКА
СТРОИТЕЛЬСТВА.
КИБЕРФИЗИЧЕСКИЕ СТРОИТЕЛЬНЫЕ
СИСТЕМЫ

Smart City

15 ноября 2018 г.
г. Москва, Ярославское шоссе, 26

10.00 –
12.30

СЕМИНАР 2 ИНЖИНИРИНГ И
УПРАВЛЕНИЕ ПРОЕКТАМИ В
СТРОИТЕЛЬСТВЕ

Ауд. 804
административный
корпус

10.00 –
16.00

СЕМИНАР 3 ГЕОТЕХНИЧЕСКОЕ,
ЭНЕРГЕТИЧЕСКОЕ И
ГИДРОТЕХНИЧЕСКОЕ
СТРОИТЕЛЬСТВО

207 А УЛБ

14.00 –
17.00

СЕМИНАР 5 (КРУГЛЫЙ СТОЛ)
АКТУАЛЬНЫЕ ВОПРОСЫ ТЕОРИИ
СЕЙСМОСТОЙКОСТИ
Памяти Г.А. Джинчвелашвили

Зал Учёного совета

15.00 –
16.30

СЕМИНАР 1 ИНЖЕНЕРНЫЕ И
АВТОМАТИЗИРОВАННЫЕ СИСТЕМЫ,
МАШИНЫ И МЕХАНИЗМЫ В
СТРОИТЕЛЬСТВЕ
**Секция 1. Энергоэффективность.
Инженерные системы городов**

Ауд. 204 Б

16.30 –
18.00

СЕМИНАР 1 ИНЖЕНЕРНЫЕ И
АВТОМАТИЗИРОВАННЫЕ СИСТЕМЫ,
МАШИНЫ И МЕХАНИЗМЫ В
СТРОИТЕЛЬСТВЕ
**Секция 2.
Технологии эксплуатации и
капитального ремонта зданий,
сооружений и объектов городской
инфраструктуры**

Ауд. 204 Б

16 ноября 2018 г.
г. Москва, Ярославское шоссе, 26

10.00 - 12.00	ИНЖЕНЕРЫ ПРОТИВ МИФОВ	9 студия МОЦОС (3-й этаж НТБ)
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СЕМИНАР 1
**ИНЖЕНЕРНЫЕ И АВТОМАТИЗИРОВАННЫЕ СИСТЕМЫ,
МАШИНЫ И МЕХАНИЗМЫ В СТРОИТЕЛЬСТВЕ**

Секция 1.

Энергоэффективность. Инженерные системы городов

15.00-16.30

15 ноября 2018 г.

**ауд. 204 б
УЛЬ**

Сопредседатели:

Лушин Кирилл Игоревич – канд. техн. наук, директор ИИЭСМ НИУ МГСУ;

Орлов Владимир Александрович – д-р техн. наук, проф., зав. кафедрой водоснабжения и водоотведения ИИЭСМ МГСУ;

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А.И. Абенэ

**ГЕОЭКОЛОГИЧЕСКИЕ АСПЕКТЫ ДОБЫЧИ СЫРЬЯ ДЛЯ
СТРОИТЕЛЬНОЙ ОТРАСЛИ**

В.Г. Гагарин, К.П. Зубарев

**ИССЛЕДОВАНИЯ ВЛАЖНОСТНОГО РЕЖИМА ОГРАЖДАЮЩИХ
КОНСТРУКЦИЙ С ПОВЫШЕННЫМ УРОВНЕМ ЭНЕРГОСБЕРЕЖЕНИЯ**

В.А. Головесов, А.Г. Первов

**СОВЕРШЕНСТВОВАНИЕ ТЕХНОЛОГИЙ ОЧИСТКИ ПОДЗЕМНЫХ ВОД
ПУТЕМ ПРИМЕНЕНИЯ МЕТОДА НАНОФИЛЬТРАЦИИ**

А.К. Ключко, И.А. Бабкин

**ОПРЕДЕЛЕНИЕ ЭНЕРГОПОТРЕБЛЕНИЯ НА СОДЕРЖАНИЕ
ПОДЗЕМНОЙ ПАРКОВКИ ДЛЯ РАЗЛИЧНЫХ ГОРОДОВ**

Е.Е. Ласукова, А.В. Дорошенко

**О МЕРОПРИЯТИЯХ ПО МИНИМИЗАЦИИ ПОТЕРЬ ЭНЕРГОРЕСУРСОВ В
ЖИЛИЩНО-КОММУНАЛЬНОМ КОМПЛЕКСЕ**

А.Я. Лахов
ПАРАМЕТРИЧЕСКИЙ ОБЪЕКТ ARСНІСAD ОДНОКОНТУРНЫХ
ГЕОДЕЗИЧЕСКИХ ОБОЛОЧЕК С ПЯТИУГОЛЬНЫМИ ПЛАСТИНАМИ

Nguyen Dinh Dap, M.Y. Slesarev, V.V. VolshaniI, N.T. Dzhumagulova
CAUSES OF WATER POLLUTION IN HANOI (VIETNAM)

Нгуен Динь Дап, В.А. Курочкина, М.Ю. Слесарев
ВЛИЯНИЕ СТОЧНЫХ ВОД НА КАЧЕСТВО ВОДЫ В РЕКЕ ТОЛИТЬ (г.
ХАНОЙ, ВЬЕТНАМ)

А.С. Семькина
СНИЖЕНИЕ ЗАТРАТ ПРОЦЕССА ТРАНСПОРТИРОВАНИЯ
ЖЕЛЕЗОРУДНОГО СЫРЬЯ АВТОМОБИЛЬНЫМ ТРАНСПОРТОМ
ГОРНО-ДОБЫВАЮЩИХ ПРЕДПРИЯТИЙ

Е.Д. Федорова
МЕТОДИКА РАСЧЁТА ИНТЕГРАЛЬНОЙ ОСВЕЩЁННОСТИ
ПОМЕЩЕНИЯ ПЕРСПЕКТИВНЫМИ ЭНЕРГОСБЕРЕГАЮЩИМИ
УСТРОЙСТВАМИ

Филлис Тете
АНАЛИЗ ЭКОЛОГИЧЕСКОЙ БЕЗОПАСНОСТИ ИНФРАСТРУКТУРЫ
НЕФТЕПРОМЫСЛА НА ОСНОВЕ БИОСФЕРНОСОВМЕСТИМЫХ
ТЕХНОЛОГИЙ СТРОИТЕЛЬСТВА

П.Д. Чельшков, А.В. Андреева
УПРАВЛЕНИЕ ПАРАМЕТРАМИ ФУНКЦИОНИРОВАНИЯ
ИНЖЕНЕРНЫХ СИСТЕМ НА ОСНОВЕ АЛГОРИТМИЧЕСКОГО
АНАЛИЗА ДАННЫХ

Секция 2.

Технологии эксплуатации и капитального ремонта зданий, сооружений и объектов городской инфраструктуры

16.30-18.00

15 ноября 2018 г.

ауд. 204 б
УЛБ

Сопредседатели:

Король Елена Анатольевна, д-р техн. наук, проф., зав. кафедрой жилищно-коммунального комплекса ИИЭСМ НИУ МГСУ;

Касьянов Виталий Федорович, д-р техн. наук, проф., кафедра жилищно-коммунального комплекса ИИЭСМ НИУ МГСУ;

Борковская Виктория Геннадиевна, кан. экон. наук, кафедра жилищно-коммунального комплекса ИИЭСМ НИУ МГСУ;

Ответственный секретарь:

Дегаев Евгений Николаевич, канд. экон. наук, доц. кафедра жилищно-коммунального комплекса ИИЭСМ НИУ МГСУ.

Е.А. Агрелова, В.В. Смирнов

ПОВЫШЕНИЕ ПОЖАРОБЕЗОПАСНОСТИ ЗДАНИЙ ПРИМЕНЕНИЕМ
УСТРОЙСТВ ЗАЩИТЫ ОТ ДУГОВОГО ПРОБОЯ/ЗАМЫКАНИЯ

А.Э. Арташина, Е.А. Агрелова

МОДЕЛИРОВАНИЕ ПОВЕДЕНИЯ ЛЮДЕЙ ПРИ РАСЧЁТЕ ЭВАКУАЦИИ
ПРИ ПОЖАРЕ

А.В. Аканов, Т.Г. Макеева

МЕТОДИКА ЭКОЛОГО-ЭКОНОМИЧЕСКОЙ ОЦЕНКИ РАЗМЕЩЕНИЯ
КОМПЛЕКСОВ ПО ПЕРЕРАБОТКЕ ТВЁРДЫХ КОММУНАЛЬНЫХ
ОТХОДОВ (ТКО)

Г.Л. Акопян, В.Ф. Касьянов, С.В. Колобова

РЕНОВАЦИЯ ЖИЛОЙ ЗАСТРОЙКИ В ГОРОДЕ МОСКВЕ

В.И. Данильченко, В.Ф. Касьянов

ИНОСТРАННЫЙ И ОТЕЧЕСТВЕННЫЙ ОПЫТ ОБУСТРОЙСТВА
СТРОИТЕЛЬСТВА И РЕКОНСТРУКЦИИ ГОРОДСКИХ НАБЕРЕЖНЫХ

А.В. Захаренко

ПРИНЦИПЫ ПОВЫШЕНИЯ АДАПТАЦИОННОЙ ПРИГОДНОСТИ
ЖИЛЫХ ЗДАНИЙ К ПЕРЕУСТРОЙСТВУ

А.А. Какосьян
ПРОНИКАЮЩАЯ ГИДРОИЗОЛЯЦИЯ «ПЕНЕТРОН» ДЛЯ СТЕН ИЗ
КРУПНОПОРИСТОГО БЕТОНА

К.Н. Макаров, Е.А. Юрченко, Е.Е. Юрченко
ЭЛЕКТРОСТРИКЦИОННЫЙ ЭФФЕКТ ПЛАСТИКА ABS ДЛЯ
РЕЗОНАНСНЫХ КОЛЕБАНИЙ МОДЕЛЕЙ ЗДАНИЙ

И.С. Медов, А.Д. Плотников, Ю.О. Кустикова
ТЕХНОЛОГИЧЕСКОЕ РЕШЕНИЕ КАПИТАЛЬНОГО РЕМОНТА ФАСАДА
ПАНЕЛЬНЫХ ЖИЛЫХ ДОМОВ МАТЕРИАЛАМИ "БИРСС"

В.А. Орлов, А.А. Пелипенко
ЭКСПЕРИМЕНТАЛЬНОЕ ИССЛЕДОВАНИЕ ПО ОПРЕДЕЛЕНИЮ
ПРОЧНОСТНЫХ ХАРАКТЕРИСТИК ВНУТРЕННИХ НАБРЫЗГОВЫХ
ПОКРЫТИЙ ТРУБОПРОВОДОВ

А.Д. Плотников, Ю.О. Кустикова
ПЕРСПЕКТИВНЫЕ НАПРАВЛЕНИЯ ПРИМЕНЕНИЯ ВИМ-ТЕХНОЛОГИЙ
В ЭКСПЛУАТАЦИИ ЗДАНИЙ И СООРУЖЕНИЙ

Е.В. Плюснина, А.В. Остякова
БЕЗОПАСНАЯ ЭКСПЛУАТАЦИЯ И РЕКОНСТРУКЦИЯ ГОРОДСКИХ
ВОДНЫХ ОБЪЕКТОВ В ПАРКОВЫХ КОМПЛЕКСАХ

В.В. Полякова, Е.Н. Дегаев
К ВОПРОСУ О СИСТЕМЕ РАЗДЕЛЬНОГО СБОРА И УТИЛИЗАЦИИ
КОММУНАЛЬНЫХ ОТХОДОВ НА ТЕРРИТОРИИ СУБЪЕКТОВ РФ

Н.Г. Толкачёва, В.Г. Борковская
ТЕХНОЛОГИЯ РАЗДЕЛЬНОГО СБОРА И УТИЛИЗАЦИИ
ПРОМЫШЛЕННЫХ И БЫТОВЫХ ОТХОДОВ

В.В. Юдина, М.Н. Берлинова
УСТРОЙСТВО ЭКСПЛУАТИРУЕМЫХ «ЗЕЛЕННЫХ» КРЫШ ПРИ
КАПИТАЛЬНОМ РЕМОНТЕ И РЕКОНСТРУКЦИИ ЖИЛЫХ ЗДАНИЙ

СЕМИНАР 2
ИНЖИНИРИНГ И УПРАВЛЕНИЕ ПРОЕКТАМИ В
СТРОИТЕЛЬСТВЕ

10.00 – 12.30

15 ноября 2018 г.

Ауд. 804
(Адм. корпус)

Сопредседатели:

Сборщиков С.Б., д-р экон. наук, проф. кафедры ТОУС НИУ МГСУ;

Малахов В.И., канд. экон. наук, ген. директор ООО «Современные технологии генподрядного менеджмента»;

Журавлев П.А., канд. техн. наук, директор по сопровождению проектной документации и экспертизе ООО «СТРОЙГАЗМОНТАЖ».

Ответственный секретарь:

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А.Ю. Атанова, О.А. Стрельникова

СОВРЕМЕННЫЕ ИНСТРУМЕНТЫ КАЛЕНДАРНОГО ПЛАНИРОВАНИЯ
В ПРОЕКТНОМ УПРАВЛЕНИИ

Д.С. Зенкин, П.А. Разуваев

РОЛЬ BIM ТЕХНОЛОГИЙ В СФЕРЕ УПРАВЛЕНИЯ ПРОЕКТАМИ В
СТРОИТЕЛЬСТВЕ

В.А. Корниенко

АНАЛИЗ ФАКТОРОВ, ОКАЗЫВАЮЩИХ ВЛИЯНИЕ НА СТОИМОСТЬ
СТРОИТЕЛЬСТВА ЗА РУБЕЖОМ

Н.В. Лазарева, В.В. Шведов, А.С. Федорович

СТРУКТУРА СТОИМОСТНОГО ИНЖИНИРИНГА В СТРОИТЕЛЬСТВЕ

А.В. Полканова

К ВОПРОСУ УЧЕТА ВЛИЯНИЯ ОПАСНЫХ ГЕОЛОГИЧЕСКИХ
ПРОЦЕССОВ НА ОЦЕНКУ ИНВЕСТИЦИОННО-СТРОИТЕЛЬНЫХ
ПРОЕКТОВ

И.А. Потанин

СТАНДАРТЫ УПРАВЛЕНИЯ ПРОЕКТАМИ И ИХ АДАПТАЦИЯ К
СТРОИТЕЛЬНОЙ ОТРАСЛИ

А.В. Хлебников, К.В. Юхлин
ИНСТРУМЕНТЫ УПРАВЛЕНИЯ ОРГАНИЗАЦИОННО-
ТЕХНОЛОГИЧЕСКИМ ПРОЕКТОМ НА БАЗЕ ИНФОРМАЦИОННОЙ
МОДЕЛИ ОБЪЕКТА

Т.В. Хрипко
ПРАКТИКА ПРИМЕНЕНИЯ ПОСТАНОВЛЕНИЯ ПРАВИТЕЛЬСТВА РФ
ОТ 15.05.2017 № 570

Г.Н. Шинкарева, Л.А. Маслова
ИНЖИНИРИНГ КАК ОСНОВА МОДЕРНИЗАЦИИ СТРОИТЕЛЬНОЙ
ОТРАСЛИ

СЕМИНАР 3

ГЕОТЕХНИЧЕСКОЕ, ЭНЕРГЕТИЧЕСКОЕ И ГИДРОТЕХНИЧЕСКОЕ СТРОИТЕЛЬСТВО

10.00 – 16.00

15 ноября

207 А УЛБ

Сопредседатели:

Орехов Генрих Васильевич, д-р техн. наук, доц. НИУ МГСУ

Лаврусевич Андрей Александрович, д-р геол.-минерал. наук, проф., НИУ МГСУ

Модераторы.

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Сидоров Виталий Валентинович, канд. техн. наук, НИУ МГСУ

Н.А. Анискин, Нгуен Чонг Чык

ВЛИЯНИЯ РАЗМЕРОВ БЕТОННОЙ МАССИВНОЙ КОНСТРУКЦИИ НА
ЕЁ ТЕМПЕРАТУРНЫЙ РЕЖИМ

Ю.В. Ванина, В.В. Сидоров

ПРОБЛЕМЫ ВОЗВЕДЕНИЯ КОНСТРУКЦИИ ПРИЧАЛЬНЫХ
СООРУЖЕНИЙ НА СЛАБОМ ВОДОНАСЫЩЕННОМ ОСНОВАНИИ В
СЕЙСМООПАСНОМ РАЙОНЕ

L.V. Volgina, A.A. Romanova

RESISTANCE COEFFICIENT OF NONSPHERICAL SOLID PARTICLES IN
TURBULENT FLOW

Д.В. Зайцев, А.В. Денисов

СОСТОЯНИЕ ВОПРОСА О ВЛИЯНИИ ВЫСОКИХ ТЕМПЕРАТУР НА
ПРОЧНОСТЬ СТАЛЕФИБРОБЕТОНА И ЗАДАЧИ ДАЛЬНЕЙШИХ
ИССЛЕДОВАНИЙ

Л.Ю. Ермошина, В.В. Сидоров

ОПЫТ РАСЧЕТА ОСНОВАНИЯ ЗДАНИЯ, ВОСПРИНИМАЮЩЕГО
ВЫСОКИЕ И НЕРАВНОМЕРНЫЕ НАГРУЗКИ

Кантаржи И.Г.

ПОРТ, БЕРЕГОУКРЕПЛЕНИЕ, ПРИРОДНЫЕ УСЛОВИЯ БЕРЕГОВОЙ
ЗОНЫ МОРЯ

П.И. Кашперюк, К.В. Никитина, И.А. Потапов
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13.00 – 17.00

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СТРОИТЕЛЬСТВЕ»

СЕМИНАР 5
(КРУГЛЫЙ СТОЛ)
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ПАМЯТИ Г.А. ДЖИНЧВЕЛАШВИЛИ

14.00 – 17.00

15 ноября

Зал Учёного совета

Председатель:

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О.А. Ковальчук

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