



MOSCOW STATE (NATIONAL RESEARCH)  
**UNIVERSITY  
OF CIVIL  
ENGINEERING**



**CONSTRUCTION**  
THE FORMATION OF LIVING ENVIRONMENT

**CONFERENCE PROGRAMME**

**XXI International Scientific Conference  
on Advanced in Civil Engineering**

**CONSTRUCTION**  
**THE FORMATION OF LIVING ENVIRONMENT**  
**(FORM-2018)**



**Organized by:**

Moscow State University of Civil Engineering (National Research University)

**Supported by:**

- Ministry of Education and Science of the Russian Federation
- Ministry of Construction, Housing and Utilities of the Russian Federation
- International Public Organization for the Promotion of Building Education
- Russian Union of Builders
- Educational Methodological Universities Association on construction education

**Date:** April 25-27, 2018

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

**Main Topics:**

- Smart City
- Modern Buildings Materials
- Safety in Construction
- Reliability of Buildings and Constructions
- New Construction Technologies

**Conference Chairs:**

- Prof. Andrey Volkov, Professor, DSc, Rector of MGSE, 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 MGSE, 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, DSc, Professor, Academician of RAACS, Head of Department of Strength of Materials. Moscow State University of Civil Engineering, Russia
- Prof. Jan Awrejcewicz, PhD, Professor, Head of Department of Automation, Biomechanics and Mechatronics. Lodz University of Technology, Poland
- Prof. Jorge de Brito, PhD, Full Professor of Department Civil Engineering, Architecture and Georresources. Instituto Superior Technico, University of Lisbon, Portugal
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- Prof. Milan Holicky, PhD, DsC, Professor, Deputy Director of Klokner Institute, Czech Technical University in Prague, Czech Republic
- Prof. Stanislaw Jemioło, PhD, DSc, Professor, Head of Department of Strength of Materials and Theory of Elasticity and Plasticity. Warsaw University of Technology, Poland
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- Prof. Konstantin Kovler, PhD, Professor, Head of Department of Building Materials, Performance and Technology, National Building Research Institute, Technion - Israel Institute of Technology, Israel
- Prof. Sergey Kuznetsov, DSc, Professor, Leading Scientist of Department Wave Dynamics, Institute for Problems in Mechanics, Russia
- Prof. Paulo B. Lourenco, PhD, Professor, Institute for Sustainability and Innovation in Structural Engineering. University of Minho, Portugal

- Prof. Marco Di Ludovico, PhD, Associate Professor, Department of Structures for Engineering and Architecture, University of Naples Federico II, Italy
- Prof. Jiaping Liu, PhD, Professor, Dean of School of Architecture Xi'an University of Architecture & Technology, China.
- Dr. Mohammad Arif Kamal, PhD, Associate Professor, Department of Architecture, Aligarh Muslim University, India
- Prof. Viktor Mechtcherine, PhD, Professor, Director of the Institute of Construction Materials, Department of Civil Engineering, TU Dresden, Germany.
- Prof. Daman K. Panesar, PhD, Associate Professor, Department of Civil Engineering University of Toronto, Canada.
- Prof. Mikhail Sheremet, DSc, Professor, Department of Theoretical Mechanics, Tomsk State University, Russia.
- Prof. Konstantin Sobolev, PhD, Professor and Chair, Department Civil and Environmental Engineering, University of Wisconsin-Milwaukee, USA.
- Prof. Ashot Tamrazyan, DSc, Professor, advisor of RAACS, member of the Russian Engineering Academy, Head of Department of Reinforced Concrete and Stone Structures, Moscow State University of Civil Engineering, Russia
- Prof. Valeriy Telichenko, DSc, Professor, Academician of RAACS, Professor of Institute of Hydraulic Engineering and Power Plant Construction, President of Moscow State University of Civil Engineering, First Vice-President of the Russian Academy of Architecture and Construction Sciences, Russia
- Prof. Zaven Ter-Martirosian, DSc, Professor of Department of Soil and Geotechnical Engineering, Chief Research Scientist of REC "Geotechnical Engineering". Moscow State University of Civil Engineering, Russia.
- Prof. Humberto Varum, PhD, Full Professor, Department of Civil Engineering, Faculty of Engineering, University of Porto, Portugal
- Prof. Nikolai Vatin, DSc, Professor, Director of Institute of Civil Engineering, Peter the Great St.Petersburg Polytechnic University, Russia
- Prof. Josef Vican, PhD, Professor, Department of Structural and Bridges, Dean of FCE, University of Zilina, Slovak Republic
- Dr. Dariusz Wawrentowicz, PhD, Faculty of Civil and Environmental Engineering, Bialystok University of Technology, Poland
- Prof. Artur Zbiciak, PhD, Professor, Faculty of Civil Engineering, Warsaw University of Technology, Poland
- Prof. Zbigniew Wójcicki, DSc, Professor, Department of Civil Engineering, Wrocław University of Technology, Poland

### **MGSU Organizing Committee:**

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- Dr. Oleg Kovalchuk, PhD, Assoc. professor, Director of the Institute of Basic Education
- Dr. Kirill Lushin, PhD, Assoc. professor, Director of the Institute of Engineering and Ecological Construction and Mechanization
- Dr. Olga Kuzina, PhD, Assoc. professor, Director of the Institute of Economics, Management and Information Systems in Construction and Real Estate
- Dr. Ekaterina Chebotayeva, PhD, Head of Department of Youth and Information Policy
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### **Conference Working Group and Workshop Management Committee:**

Dr. Anna Doroshenko, Prof. Tatyana Matsevich, Prof. Armen Ter-Martirosyan, Prof. Olga Lyapidevskaya, Dr. Alevtina Balakina, Dr. Pavel Chelyshkov, Dr. Alexey Andrianov, Dr. Andrey Zhuravlev, Dr. Tatyana Kisel, Dr. Vyacheslav Semenov, Dr. Nadezhda Sevryugina, Dr. Vyacheslav Medvedev, Dr. Anton Pilipenko, Victor Evstratov, Irina Molchanova, Olga Konakova, Tatyana Zhdanova, Vyacheslav Belov, Kristina Ohotnikova, Margarita Mitkina, Tatyana Kvitka, Pavel Vorobiev, Ivan Blinov, Dmitriy Maksimov

### **Editors of Conference Proceedings:**

- Prof. Andrey Askadskiy
- Prof. Andrey Pustovgar
- Prof. Tatyana Matsevich
- Dr. Aleksey Adamtsevich



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

## Preface

International Scientific Conference “Construction the Formation of Living Environment” originates from 1997 and has always attracted promising researchers who are developing new directions in the field of construction science. Every year more and more scientists from different countries of the world participate in the conference.

In 2018 representatives of 26 countries take part in the conference (Belarus, Canada, China, Czech Republic, Denmark, Estonia, France, Germany, Hong Kong, India, Israel, Italy, Kazakhstan, Malaysia, Nigeria, Poland, Portugal, Romania, Russia, Slovakia, Sweden, Syria, Ukraine, USA, Vietnam, Yemen), and the conference itself is held for the first time in one working language - English. This allows to expand the scope of international professional interaction, develop the principles of partnership and enhance integration and cooperation in the construction science area.

An important feature of the conference has always been its interest for young researchers. Since 2004, the All-Russian competition with international participation "Youth Innovations" has been held within the framework of the conference, supported by the Government of the Russian Federation and the Russian Academy of Architecture and Building Sciences. In 2013, the Ministry of Education and Science of the Russian Federation included this Competition in the "List of Olympiads and other competitive events, which resulted in awarding prizes to support talented youth." The competition "Youth Innovations" is held for participants under the age of 25 years and provides an opportunity for early identification of talented interested youth that can be creative in tough competitive conditions of international globalization.

Annual Conference “Construction the Formation of Living Environment” is one of the largest scientific conferences on Advanced in Civil Engineering held in the territory of the Russian Federation and allows actively form a new idea of construction as a high-tech and knowledge-intensive industry. After all, today Civil Engineering is not limited to just the stage of erecting a construction project, but involves managing the full life cycle of building systems that have a high degree of digitization at all stages - from design to decommissioning. And it is the acquisition of new scientific knowledge and the wide exchange of scientific experience among researchers working in various scientific fields that can provide humanity with a quality, safe, energy-efficient environment and the infrastructure necessary for further technological growth and development.

**Andrey Volkov, Andrey Pustovgar**  
Conference Chairs

## CONFERENCE SCHEDULE

April 25		
9.00 – 9.50	<b>Registration of participants</b>	Assembly Hall
10.10 – 10.40	<b>Welcome Speeches</b>	Assembly Hall
10.50 – 11.50	<p><b>Reports of key speakers:</b></p> <p>Prof. Daman K. Panesar «Sustainable Approaches Related to Concrete Construction Materials»</p> <p>Prof. Armen Ter-Martirosyan «Interaction of the Earth Dam with the Inhomogeneous Base Including a Layer of a Weak Water-Saturated Soil»</p>	Assembly Hall
11.50 – 12.20	Coffee break	Assembly Hall
12.30- 14.00	<p><b>Reports of key speakers:</b></p> <p>Prof. Marco Di Ludovico «Advanced Materials for Seismic Risk Reduction: Experimental Validation and New Frontiers»</p> <p>Prof. Sergey Kuznetsov «Propagation of Longitudinal Pochhammer – Chree Waves in Cylindrical Piles»</p> <p>Prof. Richard L. Roe and Prof. Walter Bardenwerper «Risk Management and Problem Solving in Engineering and Construction»</p>	Assembly Hall
14.00 – 15.00	Lunch	Restaurant Grabli
15.00 – 18.15	<p><b>WORKSHOP «SMART CITY»</b> Section: Information technology and automation</p>	Lecture Hall 1
15.00 – 18.45	<p><b>WORKSHOP «MODERN BUILDING MATERIALS»</b> Section: Concretes</p>	Hall of the Academic Council
15.00 – 18.30	<p><b>WORKSHOP «SAFETY IN CONSTRUCTION»</b> Section: Safety and damage in civil engineering</p>	Lecture Hall 3



<b>April 26</b>		
<b>WORKSHOP «SMART CITY»</b>		
9.00- 9.30	Registration	Hall of the Academic Council
9.30 – 13.15	<b>Section: Energy saving and ecology</b>	Lecture Hall 1
13.15- 14.15	Lunch	Restaurant Grabli
14.15- 18.00	<b>Section: Architecture and town planning</b>	Lecture Hall 1
<b>WORKSHOP «MODERN BUILDING MATERIALS»</b>		
9.00- 9.30	Registration	Hall of the Academic Council
9.30 – 13.15	<b>Section: Binders, admixtures, mortars, asphalts and other materials</b>	Hall of the Academic Council
13.15- 14.30	Lunch	Restaurant Grabli
14.30- 18.00	<b>Section: Thermal insulation, polymer composites and other materials</b>	Hall of the Academic Council
<b>WORKSHOP «SAFETY IN CONSTRUCTION»</b>		
9.00- 9.30	Registration	Hall of the Academic Council
9.30- 13.30	<b>Section: Solid mechanics in civil engineering</b>	Lecture Hall 3
13.30- 14.30	Lunch	Restaurant Grabli
14.30- 18.00	<b>Section: Actual problems in geotechnical engineering</b>	Lecture Hall 3
<b>WORKSHOP «RELIABILITY OF BUILDINGS AND CONSTRUCTIONS»</b>		
9.30- 10.00	Registration	Hall of the Academic Council
10.00 – 13.00	<b>Section: Reliability of buildings and constructions</b>	Lecture Hall 4
13.00- 14.15	Lunch	Restaurant Grabli

14.15 – 17.45	<b>Section: Reliability of buildings and constructions</b>	Lecture Hall 4
<b>WORKSHOP «NEW CONSTRUCTION TECHNOLOGIES»</b>		
9.00- 9.30	Registration	Hall of the Academic Council
9.30- 12.30	<b>Section: Economic aspects of new construction technologies</b>	Lecture Hall No5
12.30- 13.30	Lunch	Restaurant Grabli
13.30 – 18.00	<b>Section: Engineering aspects of new construction technologies</b>	Lecture Hall No5

<b>SEMINAR «YOUTH INNOVATIONS»</b>		
10.30- 11.00	<b>Registration, welcome coffee</b>	Library recreational area
11.00- 13.45	<b>Seminar «Youth Innovations»</b>	Library recreational area
13.45- 14.45	Lunch	Restaurant Grabli
14.45- 16.00	<b>Seminar «Youth Innovations»</b>	Library recreational area
16.00- 16.30	Coffee break	Library recreational area
16.30- 18.00	<b>Seminar «Youth Innovations»</b>	Library recreational area

<b>Show Program</b>		
18.30- 21.00	«Miss & Mister Student MGSU»	Assembly Hall

<b>April 27</b>		
<b>WORKSHOP «SAFETY IN CONSTRUCTION»</b>		
9.00- 9.30	Registration	Hall of the Academic Council
9.30- 13.00	<b>Section: Mathematical methods in construction</b>	Lecture Hall No1
9.30- 10.00	Registration of poster session participants and excursions participants	Hall of the Academic Council
10.00 – 12.00	<b>POSTER SESSION</b>	Library recreational area
10.00 – 12.15	Laboratory tour to the scientific centers of MGSU	Scientific Departments of MGSU
12.00- 13.00	Coffee break	Hall of the Academic Council
13.00 – 14.00	<b>Closing ceremonies</b>	Hall of the Academic Council

<b>Special Event</b>		
April 25-27	Student business workshop on Smart City	MGSU Smart City Laboratory

## WORKSHOP «SMART CITY»

**Chairs: Prof. Knut Hartenstein, Dr. Alevtina Balakina,  
Dr. Alexey Andrianov**

### SECTION: INFORMATION TECHNOLOGY AND AUTOMATION

April 25 | 15.00 – 18.15 | Lecture Hall 1

#### **Denis Lysenko**

THE METHOD OF OPTIMIZATION OF ENERGY-EFFICIENT  
ENGINEERING SOLUTIONS BY VARYING CRITERIA IN CAD

#### **Alina Vigovskaya**

LIFE CYCLE ASSESSMENT (LCA) OF A LEED CERTIFIED BUILDING

#### **Jakob Taraben**

CASE STUDY FOR THE INTEGRATION OF GEOMETRICAL ANALYSES  
FOR STRUCTURAL CONDITION ASSESSMENT IN BUILDING  
INFORMATION MODELS

#### **Alberto Celani**

INTEGRATION OF TERRITORIAL ANALYSIS METHODS IN SITE  
SELECTION ON THE EXAMPLE OF SAINT PETERSBURG

#### **Zsuzsa Besenyői**

TOWARDS DIGITALIZATION OF BUILDING OPERATIONS WITH BIM

#### **Yan Grossman**

METHOD OF AUTOMATED SELECTION OF NECESSARY DETAILING IN  
ENERGY MODELING

#### **Tatiana Pronina**

ELEMENTS OF ARCHITECTURAL AND ARTISTIC EXPRESSIVENESS OF  
URBAN HIGHWAYS

**Vladimir Prihodko**

INNOVATIVE TECHNOLOGIES IN THE FIELD OF TOPOGRAPHY, LAND MANAGEMENT, TERRITORIAL PLANNING, CONSTRUCTION AND ARCHITECTURE

**Elena Shcherbina**

SMART CITY TECHNOLOGIES FOR SUSTAINABLE RURAL DEVELOPMENT

**Anastasia Andreeva**

MANAGEMENT OF PARAMETERS OF THE FUNCTIONING OF ENGINEERING SYSTEMS OF THE BUILDING OBJECT BASED ON ALGORITHMIC DATA ANALYSIS

**Daria Konstantinova**

SOLAR HEATING AND HOT WATER SUPPLY OF HIGH-RISE BUILDINGS

**SECTION: ENERGY SAVING AND ECOLOGY**

April 26 | 9.00 – 13.15 | Lecture Hall 1

**Natalia Perfilyeva**

INVESTIGATION OF DIFFERENT MATERIALS USAGE EXPEDIENCY FOR A LOW-RISE PUBLIC BUILDING FROM THE ENERGY EFFICIENCY STANDPOINT

**Timur Safiullo**

ENERGY-EFFICIENT INSTALLATION OF WINDOWS IN MULTI-STOREY RESIDENTIAL BUILDINGS

**Darya Abramkina**

THERMAL BUOYANCY VENTILATION SYSTEMS

**Botir Giyasov**

ASSESSMENT OF FACTORS AFFECTING THE ENERGY EFFICIENCY OF HIGH-RISE BUILDINGS IN MODERN CITIES

**Vitaly Prokhorov**

CALCULATION METHOD OF HEAT CONSUMPTION FOR BUILDINGS  
LIFE SUPPORT SYSTEMS

**Alexey Andrianov**

THE MECHANISM AND IDENTIFICATION OF CORROSION OF STEEL  
PIPES IN HOT WATER SUPPLY SYSTEMS

**Svetlana Ilvitskaya**

BUILDING OF CLUSTERS OF ENERGY-EFFICIENT ROADSIDE AND  
ROAD SAFETY

**Ghinwa Hadla**

CIVIL ENGINEERING IN THE EASTERN PART OF THE MEDITERRANEAN  
SEA. SYRIAN COAST

**Kaminat Agakhanova**

CALCULATION AIR REGIME OF A RESIDENTIAL BUILDING WITH  
INDIVIDUAL EXHAUST CHANNELS

**Mikhail Slesarev**

MATHEMATICAL MODELING OF ENVIRONMENTAL LOADS AT STAGES  
OF CONSTRUCTION OBJECT

**Olga Gnezdilova**

THE BASIC THEORETICAL PRINCIPLES OF PLANNING THE  
DISTRIBUTION OF GAS FLOW LOW PRESSURE

**Zhanna Sapronova**

SEWAGE TREATMENT IN MEGACITIES BY MODIFIED CHESTNUT TREE  
WASTE

**Tran Ha Quan**

THE ASSESSMENT OF TECHNOLOGY SBR IN VIETNAMESE  
WASTEWATER TREATMENT

## SECTION: ARCHITECTURE AND TOWN PLANNING

April 26 | 14.15 – 18.00 | Lecture Hall 1

### **Nina Danilina**

MANAGING SMART-CITY TRANSPORTATION PLANNING OF “PARK-AND-RIDE” SYSTEM: CASE OF MOSCOW METROPOLITAN

### **Kseniya Beloborodova**

METHODS OF HOUSING MIGRANT WORKERS IN A MEGALOPOLIS

### **Maria Ekhina**

EXPOSITION-EDUCATIONAL CENTERS OF NATIONAL ARTS AND CRAFTS

### **Gianandrea Ciarabella**

SMART URBAN FURNISHING AND SMART CITIES

### **Adham Giyasov**

ARCHITECTURAL-PLANNING AND CONSTRUCTIVE STRUCTURES OF RESIDENTIAL BUILDINGS AND BUILDINGS ON COMPLEX TERRAIN

### **Julia Gribach**

CONDUCTING CALCULATING AND EXPERIMENTAL RESEARCHES OF THE BIOCLIMATIC COMFORT OF THE RESIDENTIAL AREA TERRITORY

### **Pavel Papush**

CREATING PROTECTED AREAS IN THE URBAN ENVIRONMENT, CORRESPONDING TO THE "SMART CITY" FORMATION CONCEPT. THE WAY TO SUSTAINABLE DEVELOPMENT OF URBAN ECOSYSTEMS

### **Galina Melnikova**

THE PROBLEMS OF PRESERVATION OF ETHNOCULTURAL AND URBAN-PLANNING HERITAGE OF THE EUROPEAN NORTH OF RUSSIA

### **Ilya Dunichkin**

FEATURES OF ASSESSMENT OF BIOCLIMATIC COMFORT FOR MODERN RESIDENTIAL BUILDINGS IN HOT-DRY CLIMATES

### **Ali Belal**

SMART-TECHNOLOGY IN CITY PLANNING OF POST-WAR CITIES

**Petr Iatsinevich**

RECONSTRUCTION OF INDUSTRIAL BUILDING WITH NONSTANDARD SPACE-PLANNING DECISIONS

**Alberto Celani**

SMART AND SUSTAINABLE CITIES, A NEW DEFINITION FOR A RESILIENCE-DRIVEN CITY

**Tatiana Lukonina**

INTEGRATION OF HISTORICAL MANOR COMPLEXES INTO THE URBAN AND SUBURBAN INFRASTRUCTURE



## WORKSHOP «MODERN BUILDING MATERIALS»

**Chairs: Prof. Daman K. Panesar, Prof. Olga Lyapidevskaya,  
Prof. Andrey Pustovgar  
Technical Secretary: Dr. Anton Pilipenko**

### SECTION: CONCRETES

April 25 | 15.00 – 18.45 | Hall of the Academic Council

#### **Sergey Erokhin**

MODELING OF DEFORMATION-STRENGTH CHARACTERISTICS OF  
POLYMER CONCRETE USING FRACTIONAL CALCULUS

#### **Anton Bakhrakh**

EFFECT OF FLY ASH ON FROST RESISTANCE OF SCC

#### **Sergey Anisimov**

SELF-COMPACTING FINE-GRAINED CONCRETE FOR THE  
PREFABRICATED REINFORCED CONCRETE FRAME JOINTS FILLING

#### **Askhat Rakhimov**

POROUS FILLERS FOR LIGHT CONCRETE FROM TECHNOGENIC RAW  
MATERIALS

#### **Alexey Beskopylny**

MODEL OF HETEROGENEOUS REINFORCED FIBER FOAM CONCRETE  
IN BENDING

#### **Ngoc Minh Nguyen**

SELF-COMPACTING LIGHTWEIGHT AGGREGATE CONCRETE IN  
VIETNAM

#### **Katerina Fomina**

PROPERTIES CONTROL IN AUTOCLAVE AERATED CONCRETE BY  
CHOOSING OF PORE FORMING AL-AGENT

**Dimitri Gadai**

STONE-CONCRETE – MATERIAL FOR ROCKFILL DAM FACE ZONE

**Nikita Dmitriev**

SOME ASPECTS OF USING THE CRUSHED CONCRETE UNDER EXTREME CONDITIONS OF THE RUSSIAN ARCTIC

**Hieu Nguyen Duy**

WATER MOVEMENT IN INTERNALLY CURED CONCRETE

**Krzysztof Schabowicz**

ULTRASONIC EXAMINATION OF CONCRETE WITH ONE SIDE ACCESS IN PRACTICE

**Duc Hoang Minh**

EFFECT OF FINE SAND OF HONG RIVER ON PROPERTIES OF FRESH AND HARDENED CONCRETE

**Polina Reshetneva**

MECHANICAL PROPERTIES OF HARDENED CONCRETE IN HOT AND DRY CLIMATE

**SECTION: BINDERS, ADMIXTURES, MORTARS, ASPHALTS AND OTHER MATERIALS**

April 26 | 9.00 – 13.15 | Hall of the Academic Council

**Robert Černý**

MONITORING THE EFFECT OF EXTERNAL CONDITIONS ON THE PROPERTIES OF BUILDING MATERIALS

**Aleksandr Inozemtcev**

STUDY OF MINERAL ADDITIVES FOR CEMENT MATERIALS FOR 3D-PRINTING IN CONSTRUCTION

**Nikolay Lyubomirsky**

ALTERNATIVE APPROACH TO THE ORGANIZATION OF HARDENING OF DOLOMITE BINDING MATERIALS

**Mariya Makarova**

APPLICATION OF ASH AND SLAG WASTES IN THE PRODUCTION OF BUILDING MATERIALS

**Izabela Karpisz**

STUDY OF COMPRESSIVE STRENGTH EVOLUTION IN SOIL CEMENT SAMPLES WITH FLY-ASH ADMIXTURES

**Natalya Makarova**

OPTIMIZATION OF STRUCTURAL PARAMETERS OF CEMENT COMPOSITES WITH HIGH WEAR RESISTANCE

**Jan Fořt**

LIME PLASTERS MODIFIED BY BIOMASS FLY ASH

**Paulos Kuliaev**

LIMESTONE FILLER AS ONE OF THE CHEAPEST AND BEST ADDITIVE TO CONCRETE

**Borislav Hristov**

INFLUENCE OF DIFFERENT INTERFACE PROPERTIES ON THE INTERLAYER BOND SHEAR STIFFNESS

**Andrey Akimov**

APPLYING OF ENERGY-EFFICIENT ASPHALT CONCRETE FOR ROAD PAVEMENTS

**Anna Kryukova**

DECORATIVE LIGHT TRANSMITTING CONCRETE BASED ON CRUSHED CONCRETE FINES

**Evgeniy Pyataev**

COMPOSITE MATERIAL BASED ON RECYCLED CONCRETE

**SECTION: THERMAL INSULATION, POLYMER COMPOSITES AND  
OTHER MATERIALS**

April 26 | 14.30 – 18.00 | Hall of the Academic Council

**Natalya Komorova**

EFFECT OF ALUMINA-SILICA MICROSHERE ADDITIVES ON  
PROPERTIES OF CERAMIC WALL PRODUCTS

**Petr Zhuk**

LIFECYCLE ASSESSMENT OF VACUUM HEAT-INSULATION

**Natalya Fomina**

CONSTRUCTION COMPOSITIONS BASED ON INTEGRATED BINDING OF  
THERMOPLASTIC WASTE

**Alla Sokolova**

CARBON FIBER REINFORCED PLASTIC TECHNOLOGY

**Ervand Zarmanyan**

THERMAL INSULATION SYSTEMS FOR THE ARCTIC

**Zhanna Sapronova**

CARBONATE-CONTAINING PRECIPITATE OF SUGAR PRODUCTION  
FROM SUGAR BEET AS FILLER FOR POLYMER CONCRETE

**Ekaterina Kuzina**

TECHNICAL ASPECTS OF USING COMPOSITE MATERIALS FOR  
STRENGTHENING CONSTRUCTIONS

**Aleksandra Suhova**

INFLUENCE OF TOTAL HEAD OF FOAM ON OPTIMUM INTENSITY AND  
MINIMUM PARTICULAR EXPENSE SOLUTION SIZE OF FOAMER

**Fedor Portnov**

INFLUENCE OF MODIFIERS ON COKED FOAM STRUCTURE AND  
PROPERTIES FORMED WITH THERMAL DECOMPOSITION OF WOOD

**Alexander Fomin**

THE USAGE OF IRON-CONTAINING SLUDGE WASTES IN CERAMIC BRICKS PRODUCTION

**Alexey Almatov**

SELECTION OF BASE ROCK FOR ROOFING GRANULES PRODUCTION

## WORKSHOP «SAFETY IN CONSTRUCTION»

**Chairs: Prof. Marco Di Ludovico, Prof. Sergey Kuznetsov,  
Prof. Armen Ter-Martirosyan, Prof. Zaven Ter-Martirosyan  
Prof. Vladimir Andreev, Prof. Tatyana Matseevich**

### SECTION: SAFETY AND DAMAGE IN CIVIL ENGINEERING

April 25 | 15.00 – 18.30 | Lecture Hall 3

#### **Sergey Kuznetsov**

PROPAGATION OF LONGITUDINAL POCHHAMMER – CHREE WAVES IN  
CYLINDRICAL PILES

#### **Nadegda Sevryugina**

THE PROCEDURAL APPROACH TO RELIABILITY OF OBJECTS OF THE  
RAISED LEVEL OF RESPONSIBILITY

#### **Daria Buzina**

DESIGN-EXPERIMENTAL ASSESSMENT OF RADIOLOGICAL HAZARDS  
IN RESIDENTIAL AND INDUSTRIAL PREMISES

#### **Nam Thanh Pham**

IMPROVEMENT OF THE SAFETY SYSTEMS FOR WORKING AT HEIGHTS  
ON TRANSMISSION TOWERS

#### **Nam Thanh Pham**

TEST AND CERTIFICATION PROCEDURES OF PULLEYS AS A PART OF  
PERSONAL FALL ARREST SYSTEM

#### **Sijia Li**

NUMERICAL MODELING OF WAVE BARRIER IN 2D INFINITE DOMAIN  
USING EXPLICIT/IMPLICIT MULTI-TIME STEP CO-SIMULATION

#### **Stephane Brule**

HOW TO ADVANTAGEOUSLY MANAGE THE ELLIPTICITY OF  
RAYLEIGH WAVES IN SEISMIC METAMATERIALS?

**Nikita Ryasny**

A NUMERICAL ALGORITHM FOR SOLVING A TWO-LAYERED COMPOSITE BEAM SUBJECTED TO VIBRATIONAL LOADS

**Mikhail Chernosvitov**

PIPELINES CORROSION DURING WATER SUPPLY PROCESS

**Anton Antonov**

SPATIAL SEEPAGE MATHEMATICAL MODEL OF EARTH-FILL DAM IN COMPLICATED TOPOGRAPHIC AND ENGINEERING-GEOLOGICAL CONDITIONS

**Nikolaj Atarov**

ANALYSIS OF ELASTIC FOUNDATION WITH DEFORMATION MODULUS CONTINUOUSLY VARYING ACROSS DEPTH

**M. Di Ludovico**

RESPONSE OF RC COLUMNS STRENGTHENED WITH COMPOSITE MATERIALS

**SECTION: SOLID MECHANICS IN CIVIL ENGINEERING**

April 26 | 09.30 – 13.30 | Lecture Hall 3

**Murat Tamov**

EFFECT OF LOAD HISTORY ON SHEAR STRENGTH OF REINFORCED CONCRETE I-BEAMS

**Alexey Beskopylny**

BENDING OF A WAVY PLATE OF A PERIODIC PROFILE ON AN ELASTIC FOUNDATION

**Sergey Kudryavtsev**

INFLUENCE OF WEB OPENINGS ON BEARING CAPACITY OF TRIANGULARLY CORRUGATED WEB BEAM

**Sergey Bulushev**

INVESTIGATION OF CONJUGATION NODES OF A STRUCTURE'S LOADBEARING ELEMENTS IN THE NONLINEAR FORMULATION

**Valery Filatov**

APPLICATION OF NONLINEAR DEFORMATION MODEL FOR THE CALCULATION OF REINFORCED CONCRETE ELEMENTS UNDER TRANSVERSE BENDING

**Nikita Tsybin**

THE EDGE EFFECTS IN LAYERED BEAMS

**Nelly Rogacheva**

PLATES AND BEAMS OF ASYMMETRIC STRUCTURES ALONG THE THICKNESS

**Vu Thi Bich Quyen**

A NEW ALGORITHM FOR SIZE OPTIMIZATION OF THE TRUSS STRUCTURES USING FINITE ELEMENT METHOD

**Jacek Pyda**

STUDY OF THE EFFECT OF CEMENT AMOUNT ON THE SOIL-CEMENT SAMPLE STRENGTH

**Konstantin Tkachuk**

APPLICATION OF ARTIFICIAL NEURAL NETWORKS FOR AGENT-BASED SIMULATION OF EMERGENCY EVACUATION FROM BUILDINGS FOR VARIOUS PURPOSE

**Hubert Szabowicz**

STRUTTING SYSTEMS FOR DEEP EXCAVATIONS – TECHNICAL CHALLENGES

**Alexander Gogin**

STRESS-STRAIN STATE OF EARTH DAMS WITH A CLAY CEMENT-CONCRETE DIAPHRAGM

**Genrikh Abramov**

NUMERICAL AND PHYSICAL MODELING OF THE STABILITY OF THE WORKINGS DEVELOPING THE SLOPE

**Evgeny Larionov**

NONLINEAR EVALUATION OF THE LONG-TERM CRITICAL FORCE



## SECTION: ACTUAL PROBLEMS IN GEOTECHNICAL ENGINEERING

April 26 | 14.30 – 18.00 | Lecture Hall 3

### **Yuri Osipov**

PARTICLE TRANSPORT IN A POROUS MEDIUM WITH INITIAL DEPOSIT

### **Vytaly Trofimov**

EARTH SURFACE SUBSIDENCE CAUSED BY ARBITRARY UNDERGROUND MINING

### **Daria Rasskazova**

ON THE INFLUENCE OF MODELING THE INCREMENT OF LOADS FROM THE BUILDING FRAME IN THE ANALYSIS OF THE STRESS-STRAIN STATE OF THE FOUNDATION BASE

### **Avetik Abovyan**

ABOUT THE POSSIBILITY OF SIMULATING SPATIAL OSCILLATIONS OF BUILDINGS

### **Mikhail Zertsalov**

INTERACTION OF DRILLED SHAFTS IN ROCK UNDER THE ACTION OF LATERAL LOAD

### **Peter Korolev**

TESTS OF PILES IN MELTED AND FROZEN SOILS IN CREEP MODE: RELAXATION CONDITIONS

### **Dmitry Zorin**

INTERACTION OF THE AUGERCAST MICROPILES WITH PERMAFROST

### **Airat Latypov**

CALCULATION OF THE STRESS-STRAIN STATE OF SOIL MASSIFS WITH KARST-SUFFUSION CAVITIES

**Svetlana Vinogradova**

COMPARISON OF ANALYTICAL SOLUTION OF THE SEMI-INFINITE PROBLEM OF SOIL FREEZING WITH NUMERICAL SOLUTIONS IN VARIOUS SIMULATION SOFTWARE

**Iizar Mirsayapov**

BEARING CAPACITY OF FOUNDATIONS BASE UNDER COMBINED ALTERNATING LONG-TERM STATIC AND CYCLIC LOADING

**SECTION: THE APPLICATION OF MATHEMATICAL METHODS IN MODERN STUDIES OF THE CONSTRUCTION INDUSTRY**

April 27 | 9.00 – 13.00 | Lecture Hall 1

**Yuri Galaguz**

CALCULATION OF COLLOIDS FILTRATION IN A POROUS MEDIUM

**Nadezhda Chiganova**

ESTIMATION OF THE ADMISSIBILITY OF THE DESTRUCTIVE TESTING METHOD

**Rustam Khayrullin**

TO THE CONSTRUCTION OF OPTIMAL MOTIONS OF CONTROLLED MECHANICAL SYSTEMS

**Tatiana Matseevich**

RELAXATION PROPERTIES OF ORGANO-MINERAL COMPOSITES

**Vadim Akhmetov**

AN EFFECTIVE NUMERICAL METHOD FOR CALCULATING UNSEPARATED FLOWS IN BUILDING AERODYNAMICS

**Boris Titarenko**

RISK MANAGEMENT SYSTEM MODEL FOR CONSTRUCTION PROJECTS

**Lyudmila Frishter**

THE STRESS INTENSITY FACTORS IN THE CORNER CUT-OUT AREA OF THE PLANE DOMAIN BOUNDARY

**Olga Vasil'eva**

ABOUT THE DAMAGE TO BUILDING MATERIALS AND STRUCTURES

**Victor Orlov**

RESEARCH OF ONE CLASS OF NONLINEAR DIFFERENTIAL EQUATIONS OF THIRD ORDER FOR MATHEMATICAL MODELLING THE COMPLEX STRUCTURES

**Olga Burukhina**

MECHANICAL SYSTEM RELIABILITY ANALYSIS USING RELIABILITY MATRIX METHOD

**Maxim Aleksandrovskiy**

CALCULATION OF AN FLEXIBLE GENTLY SLOPING FILAMENT USING THE GENERALIZED FINITE DIFFERENCE METHOD

**Maxim Aleksandrovskiy**

APPLICATION OF GENERALIZED EQUATIONS OF THE METHOD OF FINITE DIFFERENCES TO THE CALCULATION OF CONTINUOUS ORTHOTROPIC PLATES

**Tatiana Bobyleva**

THE AVERAGED MODEL OF LAYERED ELASTIC-CREEPING COMPOSITE MATERIALS

## **WORKSHOP «RELIABILITY OF BUILDINGS AND CONSTRUCTIONS»**

**Chairs: Prof. Peter Koteš, Prof. Ashot Tamrazyan**

### **SECTION: RELIABILITY OF BUILDINGS AND CONSTRUCTIONS**

April 26 | 9.30 – 17.45 | Lecture Hall 4

#### **Daria Subbotina**

FEATURES OF FORMATION AND FUNCTIONING OF THE INTEGRATED STRUCTURES IN CONSTRUCTION

#### **Anastasia Fedosova**

ANALYSIS OF NORMATIVE AND SCIENTIFIC AND TECHNICAL DOCUMENTS IN THE FIELD OF TESTING BRIDGE STRUCTURES FOR WIND LOADS

#### **Igor Garanzha**

ATYPICAL STRUCTURAL SYSTEMS FOR MOBILE COMMUNICATION TOWERS

#### **Andrey Sherstnev**

IMPROVING THE RELIABILITY OF ENGINEERING COLLECTORS

#### **Peter Koteš**

DETERMINING LOAD-CARRYING CAPACITY AND REMAINING LIFETIME OF BRIDGE IN VITANOVA, SLOVAKIA

#### **Jaroslav Odrobiňák**

RAPID TESTS OF CORROSION IN CORROSION CHAMBER

#### **Elena Gryaznova**

GEOTECHNICAL MONITORING TO ENSURE RELIABILITY OF CONSTRUCTION AND OPERATION OF BUILDINGS AND STRUCTURES

#### **Vladimir Pochinok**

ABOUT TREND ASSESSMENT OF MAXIMUM ANNUAL VALUES OF SNOW LOAD ON THE GROUND IN KRASNODAR KRAI

**Mikhail Sainov**

CAUSES OF CRACKING IN REINFORCED CONCRETE FACES OF ROCKFILL DAMS

**Maria Berger**

EXPERIMENTAL JUSTIFICATION OF THE DYNAMIC COEFFICIENT

**Ashot Tamrazyan**

CALCULATION OF REINFORCED CONCRETE PLATES WITH HOLE AT LONGTERM LOADING

**Ekaterina Filimonova**

OPTIMISATION REINFORCED CONCRETE SLAB WITH RISK ANALYSIS ACCORDING TO THE CRITERION OF MINIMUM COST

**Konstantin Tsvetkov**

EXPERIMENTAL RESULTS OF CONCRETE UNDER DYNAMIC EXPOSURE PRECEDED BY LONG-TERM STATIC LOAD

**Vladislav Pomelov**

ANALYSIS OF DOMESTIC AND FOREIGN REGULATORY AND SCIENTIFIC AND TECHNICAL DOCUMENTS IN THE FIELD OF WIND INFLUENCE ON BUILDINGS AND STRUCTURES THAT ARE PART OF HAZARDOUS PRODUCTION FACILITIES

**Sofia Kurnavina**

THE FIELD OF CRACK DIRECTIONS IN REINFORCED CONCRETE BENDING ELEMENTS

**Laith Zeyd Kilani**

APPLICATION OF ULTRASONIC METHODS FOR DETERMINATION LOCATION AND SIZES OF GRANITE BLOCKS OF THE MONUMENT PEDESTAL

**Alexandr Lyapin**

ASSESSMENT OF BUILDING STRUCTURE USING DATA FROM DYNAMIC MONITORING

**Vu Dinh Tho**

MODEL OF STRESSED-STRAINED STATE OF MULTI-LAYERED REINFORCED CONCRETE STRUCTURE WITH THE USE OF COMPOSITE REINFORCEMENT

**Levon Avetisyan**

BEHAVIOR OF COMPRESSED REINFORCED CONCRETE COLUMNS UNDER THERMODYNAMIC INFLUENCES TAKING INTO ACCOUNT INCREASED CONCRETE DEFORMABILITY

**Larisa Safina**

CRACKS IN MONOLITHIC CONCRETE CONSTRUCTIONS, THEIR CORRELATION WITH CAPACITY AND DURABILITY FORECAST

**Nickolay Linkov**

COMPOSITE MATERIALS FOR STRENGTHENING OF LOAD-BEARING WOODEN STRUCTURES IN HISTORICAL BUILDINGS

## WORKSHOP «NEW CONSTRUCTION TECHNOLOGIES »

**Chairs: Dr. Olga Kuzina, Dr. Pavel Chelyshkov, Dr. Anna Doroshenko**

### SECTION: ECONOMIC ASPECTS OF NEW CONSTRUCTION TECHNOLOGIES

April 26 | 9.00 – 12.30 | Lecture Hall 5

#### **Aleksandr Aleksanin**

ORGANIZATION OF A LOGISTICS SYSTEM FOR WASTE STREAMS DURING THE RENOVATION OF TERRITORIES

#### **Ahmed Safe Aldeen**

CONSTRUCTION IN THE REPUBLIC OF YEMEN: PROBLEMS OF DEVELOPMENT AND SOLUTIONS

#### **Anastasiia Slavina**

CONCERNING THE PROJECT COMPANY DIVISION WORK OPTIMIZATION USING THE VIRTUAL WORK METHODS

#### **Vadim Alpatov**

RAPID ASSESSMENT OF THE ECONOMIC EFFICIENCY OF DOMES OF BUILDINGS

#### **Svetlana Shilkina**

FINANCIAL AND ECONOMIC MODEL OF WASTE INCINERATION PLANT CONSTRUCTION

#### **Alexey Anufriev**

PRE-PROJECT ASSESSMENT OF THE RENOVATION OF FIVE-STORY BUILDINGS CARRYING OUT WITHOUT DEMOLITION WITH RELOCATION OF THE RESIDENTS

#### **Richard Roe & Walter Bardenwerper**

INTERACTIVE TEACHING OF RISK MANAGEMENT IN THE RUSSIAN CONSTRUCTION INDUSTRY

**Ivan Voronkov**

EVALUATION AND IMPROVEMENT OF THE RELIABILITY OF ORGANIZATIONAL STRUCTURES OF ICP BY THE METHOD OF HIERARCHY ANALYSIS

**Evgeny Sugak**

OCCUPATIONAL RISKS MANAGEMENT AS A BASIS OF INDUSTRIAL INJURIES AND OCCUPATIONAL DISEASE PREVENTION

**Nikita Yoshin**

THE EVOLUTIONARY DEVELOPMENT OF THE METHODOLOGY OF OPERATIONAL PLANNING OF CONSTRUCTION PRODUCTION

**SECTION: ENGINEERING ASPECTS OF NEW CONSTRUCTION TECHNOLOGIES**

April 26 | 13.30 – 18.00 | Lecture Hall 5

**Oksana Medvedeva**

CONTEMPORARY TRENDS IN METROPOLITAN GAS DISTRIBUTION INFRASTRUCTURE CONSTRUCTION

**Ivan Abramov**

IMPLEMENTING LARGE-SCALE CONSTRUCTION PROJECTS THROUGH APPLICATION OF THE SYSTEMATIC AND INTEGRATED METHOD

**Dmitriy Topchiy**

DESIGNING OF STRUCTURAL AND FUNCTIONAL ORGANIZATIONAL SYSTEMS, FORMED DURING THE RE-PROFILING OF INDUSTRIAL FACILITIES

**Aleksandr Aleksanin**

INTERRELATION THE LIFE CYCLE OF AN OBJECT AND THE CONCEPT OF SUSTAINABLE DEVELOPMENT

**Victor Brodskiy**

SIMULATION OF FITTING OF CONSTRUCTION ORGANIZATIONS AND ERECTED BUILDINGS WITH COLLECTIVE PROTECTIVE EQUIPMENT



**Andrey Pilyay**

THE USE OF NORMATIVE BASIS FOR THE CONSTRUCTION COST FOR INTRODUCTION OF 5D BIM IN RUSSIA

**Dmitriy Krasovski**

DEVELOPMENT OF THE REFLEX-ADAPTIVE ORGANIZATIONAL STRUCTURE OF HIGH ROBUSTNESS

**Shamil Taushunae**

CONSTRUCTION WASTE PROCESSING MANAGEMENT AND DEMOLITION OF FIVE-STOREY APARTMENT BLOCKS IN MOSCOW

**Nikolay Ivanov**

RISK-BASED THINKING AND DECISION-MAKING METHODS IN CONDITIONS OF TOTAL UNCERTAINTY

**Yulia Shaposhnikova**

DEFLECTIONS OF SLABS OF MONOLITHIC FLAT CEILINGS WITH HIGH-STRENGTH REINFORCEMENT WITHOUT ADHESION TO CONCRETE

**Olga Votyakova**

THE ORGANIZATION OF THE UNIFIED SYSTEM OF WASTE MANAGEMENT CONSTRUCTION

**Irene Ladnykh**

LOW-RISE HOUSE OF PLYWOOD HONEYCOMB PANELS

**Sergey Kalinovsky**

FEATURES OF CONSTRUCTION OF BUILDINGS AND CONSTRUCTIONS ON LOESSIAL THE BASES IN MOLDOVA

**Valeria Razvalyaeva**

FORMATION OF WATER FILM FROM AQUEOUS FILM FORMING FOAM DROPS ON THE SURFACE OF OIL PRODUCTS

**Tat Ho Leung**

BIOMETRICS ANALYSIS ON HAZARD AWARENESS OF CONSTRUCTION WORKERS

**Tat Ho Leung**

CONSTRUCTION SAFETY KNOWLEDGE SHARING BY INTERNET OF THINGS, WEB 2.0 AND MOBILE APPS: PSYCHOLOGICAL AND NEW INSTITUTIONAL ECONOMICS CONCEPTUAL ANALYSIS

## POSTER SESSION

April 27 | 10.00 – 12.00 | Library recreational area

### POSTER WORKSHOP «SMART CITY»

#### **Andrey Voronov**

CONCEPTUAL APPROACH TO THE CREATION OF "SMART" SEWERAGE SYSTEM FOR SURFACE CITY RUNOFF

#### **Egor Kotov**

INTEGRAL EVALUATION OF VARIANTS OF RENOVATION PROJECTS FOR MOSCOW CITY BLOCKS

#### **Nadezhda Samoylova**

IMPACT OF SETTLEMENT LOCATION CONDITIONS ON THE FORMATION OF URBAN COAL MINING AREA BORDERS

#### **Mariia Lavrova**

THE DECREASE IN CAPITAL EXPENDITURES OF PLUMBING AND SEWERAGE RECONSTRUCTION

#### **Olga Malikova**

COMPARISON OF THE COMPLETENESS OF THE CLIMATE PROBABILITY-STATISTIC MODEL AND THE REFERENCE YEAR MODEL

#### **Ihomjon Shukurov**

THE RESIDENTIAL AREA FOR MOUNTAIN ELEVATION SETTLEMENTS CHOICE WITH THE GIVEN STRUCTURAL FEATURES OF THE HOUSES

#### **Olga Gerasimova**

PODIUM LANDSCAPE OF RESIDENTIAL ZONES

#### **Irina Teplova**

TRAFFIC FLOW ORGANIZATION IN URBAN TRANSPORT TRANSIT HUBS

**Sergey Fedorov**

BIOSPHERE COMPATIBILITY - A NON-CONTROLLED PARADIGM OF SECURITY OF URBANIZED (CITY) ENVIRONMENT

**Irina Chubarkina**

IMPLEMENTATION OF CONSTRUCTION PROJECTS FOR SOCIAL INFRASTRUCTURE DEVELOPMENT IN SMART CITIES

**Polina Boriskina**

MODERN TRANSLUCENT STRUCTURES IN MULTISTORY RESIDENTIAL BUILDINGS

**Nataliya Shirokaya**

DEVELOPMENT OF A POLYFUNCTIONAL STRUCTURE OF TRANSPORT HUBS IN SMART CITY

**Aleksandr Plotnikov**

NATURAL RESEARCHES OF TEMPERATURE CONDITION OF AN EXTERNAL WALL WITH LSK

**Sofia Ulyanovskaya**

ARCHITECTURE DESIGN OF CONTINUING PROFESSIONAL EDUCATION FOR TEENAGE GROUP

**Igor Gulshin**

LOW-OXYGEN METHOD OF WASTEWATER TREATMENT WITH EFFECTIVE NUTRIENTS REMOVAL

**Olga Krinochkina**

ENGINEERING INVESTIGATIONS AS A BASIS OF ECOLOGICALLY SAFE CONSTRUCTION IN THE CONDITIONS OF HIGHLANDS

**Anastasia Nesterenko**

WASTEWATER TREATMENT IN MEMBRANE BIOREACTORS. FEATURES AND APPLICATION

**Olesya Vasyutina**

REUSE OF TREATED WASTEWATER

**Irina Maltseva**

THE INTEGRATING OF ARCHITECTURE AND NATURE INTO ENVIRONMENTAL OBJECTS IN MOUNTAINOUS TERRAIN

**Elena Gorbenkova**

«SMART SETTLEMENTS»: THE DEVELOPMENT CONCEPT IN A NEW SOCIO-ECONOMIC AND INFORMATIOLOGIC CONDITIONS

**Andrey Semenov**

THE OF CONSTRUCTING A CENTRALIZED CONTROL OF ENGINEERING SYSTEMS OF OBJECTS OF MODERN CIVIL ENGINEERING

**Svyatoslav Kulnyaev**

FORWARD TEMPERATURES AND PRODUCTION PLANNING IN DISTRICT HEATING SYSTEMS

**Mikhail Slesarev**

ENVIRONMENTAL GRAPHIC METHOD FOR CREATING AREA OF PERMISSIBLE IMPACT

**Alexey Krupkin**

DEVELOPMENT OF THE SMART CITY CONCEPT IN SUSTAINABLE ECONOMY

**Elena Malyavina**

METHODS OF SELECTION OF THE OUTDOOR AIR DESIGN TEMPERATURE AND ENTHALPY IN THE WARM PERIOD OF THE YEAR

**Samvel Sargsyan**

MATHEMATICAL MODELLING OF THE INDOOR ICE ARENA WITH TWO CONTROL VOLUMES FOR CALCULATION OF THE AIR EXCHANGE

**Konstantin Chizhik**

ENERGY EFFICIENCY OF FUNCTIONING OF WATER RESERVOIR WELLS AND COLLECTING CONDUIT

**Oleg Primin**

CLEAN WATER OF RUSSIA: PROBLEMS AND SOLUTIONS

**Oleg Mkrtychev**

ANALYSIS OF VARIOUS DEFINITIONS FOR SMART CITY CONCEPT

**Vera Murgul**

INVESTIGATION OF HEAT LOSSES THROUGH GROUND SUPPORTED FLOORS OF HISTORICAL BUILDINGS

**Natalya Saprykina**

FORECASTING TECHNOLOGY AS A METHOD OF MODELING AND BUILDING SMART CITY CONCEPT

**Victor Bazhenov**

WASTEWATER SLUDGE DISPOSAL IN THE CLAYDITE CONSTRUCTION PRODUCT

**Kirill Tesler**

THE COASTAL TERRITORY OF THE YAUZA RIVER AS AN URBAN RECREATIONAL CARCASS

**POSTER WORKSHOP «MODERN BUILDING MATERIALS»**

**Vera Vikulina**

EFFECT OF ULTRASOUND ON SEDIMENTATION OF SUSPENDED SOLIDS IN WATER

**Pavel Vikulin**

REGISTRATION OF THE CAVITATION REGIME IN LIQUIDS UNDER THE ACTION OF ULTRASONIC VIBRATIONS

**Aleksey Naumov**

INCREASE IN FROST RESISTANCE OF A CERAMIC BRICK FROM CLAY RAW MATERIALS OF THE ATYUKHTINSKY FIELD

**Alan Khubaev**

MODERN RUSSIAN HIGH-TECH CONSTRUCTION MATERIALS AND THEIR APPLICATION IN DOMESTIC CONSTRUCTION INDUSTRY (ON EXAMPLE OF METAL-CERAMIC PANELS «HARDWALL»)

**Anatoliy Goncharov**

CREEP OF CONCRETE CAUSED BY FREEZE AND THAW CYCLE

**Lam Tang Van**

EFFECT OF RICE HUSK ASH ON HYDROTECHNICAL CONCRETE BEHAVIOR

**Svetlana Shekhovtsova**

DEVELOPMENT OF AGGREGATIONALLY AND SEDIMENTATIONALLY RESISTANT NANOSUSPENSION FOR EFFICIENT POLYMER MODIFIED BITUMEN

**Pavel Stratiy**

VACUUM GLAZED UNITS – ENERGY EFFICIENT GLAZING

**Irina Romanova**

THE SELECTING OF BUILDING INSULATION MATERIAL BY THE ANALYTIC HIERARCHY PROCESS

**Vladimir Naumov**

CONSIDERATION OF THE CHARACTERISTICS OF THE CONCRETE MIX WHEN CHOOSING CONCRETE PUMP

**Alla Sokolova**

MODIFICATION OF PVC-COMPOSITIONS FOR LINOLEUM

**Timofei Dovydenko**

THE USE OF WATERJET CUTTING WASTES IN THE PRODUCTION OF BUILDING MATERIALS

**Vladimir Kulikov**

THE FORMALIZATION OF CELLULAR STRUCTURES BASED ON OPTICAL HOLOGRAPHIC STUDIES ACCORDING TO THE STATISTICAL METHODS

**Michail Bruyako**

EFFECTIVE SORBENTS BASED ON PLASMA-MODIFIED ALUMINOSILICATE MINERALS

**Aleksandr Denisov**

RADIATION CHANGES IN SERPENTINITE CONCRETES OF "DRY"  
RADIATION SHIELD IN NUCLEAR POWER PLANTS

**Eduard Korolev**

SIMULATION OF THE CERAMIC PRODUCTS COMPOSITION USING  
FURNACE-WASTE FILLER

**Elena Pokrovskaya**

PHYSICS AND CHEMISTRY OF CREATION OF FIRE PROTECTION AND  
BIO PROTECTION BY MODIFICATION OF THIN SURFACE LAYERS

**Maria Kaddo**

STUDY OF DRY MIXES WITH ALUMINATE CEMENTS FOR SELF-  
LEVELING FLOORS

**Yulia Sokolova**

ENERGY CHARACTERISTICS OF FINELY DISPERSED ROCK SYSTEMS

**Marina Panfilova**

COMPARATIVE ANALYSIS OF STRENGTH CHARACTERISTICS OF  
GROUTING MORTARS

**Anna Sazonova**

RISK OF PATHOLOGIES WHEN EXPOSED TO FINE DUST IN THE  
CONSTRUCTION INDUSTRY

**Natalia Kozhukhova**

ASPECTS OF APPLICATION OF INDUSTRIAL ALUMINOSILICATE  
WASTES IN PRODUCTION OF ZERO-CEMENT CONSTRUCTION  
COMPOSITES

**Aleksey Logunin**

EFFECTIVE POLYSTYRENE CONCRETE USING GLASS CULLET AND  
LIQUID GLASS

**Eduard Korolev**

MODERN METHODS OF STUDYING THE PHASE COMPOSITION OF  
CLAY RAW MATERIAL AT KILN PROCESS



**Olga Miryuk**

POROUS MAGNESIA COMPOSITIONS OF A COMBINED STRUCTURE

**Vladimir Malikov**

RESEARCH OF STEEL TO DIELECTRIC TRANSITION USING  
SUBMINIATURE EDDY-CURRENT TRANSDUCER

**Victoria Petropavlovskaya**

GYPNUM COMPOSITES REINFORCEMENT

**Victoria Petropavlovskaya**

INCREASE IN EFFICIENCY OF FORMATION STRUCTURE PROCESS OF  
THE MODIFIED GYPSUM BY CARBONATION

**Tatiana Drozdyuk**

THERMAL INSULATION COMPOSITE WITH THE USE OF MINING WASTE

**Krzysztof Schabowicz**

COMPARATIVE ANALYSIS OF SELECTED NON-DESTRUCTIVE  
METHODS FOR CONCRETE DIAGNOSIS

**Denis Gerasimov**

DISPERSED-FILLED COMPOSITES WITH A STRUCTURED NANOMATRIX

**Liya Zhirkova**

HONGURIN AS HYDRAULIC ADDITIVE TO MAGNESIAN-BINDING  
SUBSTANCE

**Andrey Matseevich**

POLYMERIC NANOCOMPOSITES: ACCOUNT FOR THE EFFECT OF SIZE  
DISTRIBUTION OF NANOPARTICLES

**Aurika Elenova**

USE OF SILVERBOND QUARTZ FLOUR IN THE DESIGN OF SELF-  
COMPACTING CONCRETE MIXTURES

**POSTER WORKSHOP «SAFETY IN CONSTRUCTION»**

**Andrey Turkov**

INTERCONNECTION OF MAXIMUM DEFLECTIONS AND FREQUENCIES OF FREE VIBRATIONS OF COMPOSITE TWO-LAYERED PLATES ON PLIABLE CONNECTIONS

**Liudmila Cherkasova**

SAFETY CRITERIA OF THE HISTORIC RUINS

**Yulia Zheglova**

MODELLING OF PARTICLES RETENTION IN A POROUS SOIL

**Yuri Osipov**

ASYMPTOTIC MODEL OF SIZE-EXCLUSION GROUTING

**Tatiana Gorbunova**

MODEL OF GROUT FILTRATION IN A POROUS SOIL

**Igor Serpik**

REFINEMENT OF THE ACCOUNTING METHODOLOGY OF BI-MOMENTS TRANSFER AT THE JUNCTIONS OF THE I-SECTION BARS

**Nataliya Osipova**

AUTONOMOUS GAS FUEL SUPPLY SYSTEMS WITH NATURAL RE-GASIFICATION OF LIQUEFIED HYDROCARBON GAS: PRINCIPLES OF PROVIDING GAS FUEL TO CUSTOMERS

**Vera Petelina**

ON THE PRECISION OF ASSEMBLY OF COMPLICATED STRUCTURES

**Vladimir Orlov**

MATHEMATICAL MODELLING OF WATER EXCHANGE IN PUBLIC SWIMMING POOLS

**Tatiana Titova**

PROPERTIES OF CANONICAL TRANSFORMATIONS OF LINEAR HAMILTONIAN SYSTEMS

**Evgeny Lebed**

PSEUDORANDOM NUMBER GENERATION FOR COMPUTER MODELING OF ACTUAL SHAPES OF SPATIAL BAR STRUCTURES

**Genrikh Orekhov**

HYDRAULIC SPILLWAYS USING THE EFFECT OF INTERACTING CIRCULATION CURRENTS

**Sergey Saiyan**

THE STUDY OF ATTENUATION OF THE SHEAR STRESSES IN A STRAIGHT ROD NEAR THE POINT OF LOAD APPLICATION

**Liudmila Kirianova**

MATHEMATICAL MODEL OF THE POROUS-CAPILLARY BODY IN CONSTRUCTION MATERIALS

**Artem Konnov**

SETTLEMENT PREDICTION FOR PROTECTED BUILDINGS NEARBY DEEP EXCAVATION

**Alaaeldin Mansour**

GENERALIZED FINITE DIFFERENCE APPROACH VERIFICATION ON CIRCULAR PLATES

**Andrey Leontiev**

INTERACTION OF THIN-WALLED PRISMATIC SHELL WITH ELASTIC FOUNDATION

**Pavel Vorobiev**

RESEARCH OF THE TEMPERATURE RELAXATION PROCESS OF TENSION IN STEELS

**Dorota Marcinczak**

EXPERIMENTAL RESEARCH ON RC BEAMS STRENGTHENED IN SHEAR WITH PBO-FRCM COMPOSITES

**Alexandr Anshakov**

THE IMPACT OF APPROACH CHANNELS ON THE WAVES IN THE PORT

**Phan Tuan Anh**

PARAMETER CALCULATION OF ACCIDENT EXPLOSIONS AT OUTDOOR INSTALLATIONS OF POWER-INTENSIVE FACILITIES

**Anton Akulinin**

NUMERICAL AND LABORATORY METHODS OF TSUNAMI WAVES MODELING

**Murad Agakhanov**

EQUIVALENCE OF EFFECTS FOR A LIMITING STRESS STATE

**Aleksandra Ostyakova**

REFINED DEPENDENCES OF POWER-LAW FORM FOR CALCULATION OF HYDRAULIC RESISTANCE AND VELOCITY DISTRIBUTION

**Vyacheslav Gorev**

ACTIONS OF EXPLOSIVE LOADS OF THE PROTECTING DESIGNS TAKING INTO ACCOUNT VIBRATION COMBUSTION

**Irina Dezhina**

EXPERIMENTAL RESEARCH OF MICROTURBULENCE AND TRANSPORTABILITY ON SLIDING SURFACES

**Mohammed Zebilila**

ANALYSIS OF SYSTEMS WITH NONLINEAR AUXILIARY MASS DAMPERS BY MEANS OF A SPECIAL SELECTION OF LINEAR GENERATING FUNCTIONS

**Alexey Glushkov**

BASES AND FOUNDATIONS OF BUILDINGS AT RECONSTRUCTION

**Andrey Nikitin**

NUMERICAL SIMULATION OF REGULAR PIPE DRAINAGE SYSTEM IN PEAT SOIL

**Ekaterina Ibe**

THE IMPROVEMENT OF ASEISMIC HORIZONTAL FRAME'S THERMAL INSULATIONS

**Adelia Faizova**

FULL-SCALE DYNAMIC TESTING OF RAISED FLOOR STRUCTURES

**Zbigniew Muszynski**

ANALYSIS OF COOLING TOWER'S GEOMETRY BY MEANS OF  
GEODETIC AND THERMOVISION METHOD

**Sergey Vartanov**

MODELLING AND ECONOMIC RISK ESTIMATION FOR ACCIDENTS IN  
UNDERGROUND BUILDING CONSTRUCTION AND EXPLOITATION

**Evgeny Sobolev**

CALCULATION OF THE FOUNDATION WITH ALLOWANCE FOR THE  
SHEAR MODULUS AT SMALL DEFORMATIONS

**Alexander Osokin**

REGISTRATION OF SUBMICRON PARTICLE EMISSION FOR ROCK  
BURST PREDICTION

**Nikolay Aniskin**

TEMPERATURE REGIME OF MASSIVE CONCRETE DAMS IN THE ZONE  
OF CONTACT WITH THE BASE

**Vitalii Sidorov**

THE SETTLEMENT SPEED OF THE FINITE WIDTH FOUNDATION  
CAUSED BY THE EXTRUSION OF WEAK SOIL LAYER FROM  
COMPRESSIBLE BASE

**WORKSHOP «RELIABILITY OF BUILDINGS AND CONSTRUCTIONS»**

**Milan Holicky**

ASSESSMENT OF EXISTING CIVIL ENGINEERING STRUCTURES

**Milan Holicky**

TARGET RELIABILITY FOR CIVIL ENGINEERING STRUCTURES

**Igor Serpik**

OPTIMIZATION OF STEEL FRAME BUILDING SYSTEMS IN TERMS OF PARAMETERS AND RELIABILITY REQUIREMENTS

**Dmitry Kozlov**

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**Liubov Avdonina**

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**Fedor Zhikharev**

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RELIABILITY ASSESSMENT OF WATERPROOFING SYSTEMS OF BUILDINGS UNDERGROUND PARTS

**Valentin Ermakov**

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**Anatoly Bedov**

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**Mikhail Medyankin**

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**Alexey Anufriev**

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**Vitaly Khvan**

ON CERTAIN DEVELOPMENT ASPECTS OF AN ISPAS-BASED SYSTEM-TARGET APPROACH TO EVALUATION OF NET ASSET SUSTAINABILITY LEVEL

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NON-COLLAPSIBLE AND COLLAPSIBLE SYSTEMS FOR FINISHING BUILDINGS, CONSTRUCTIONS AND THEIR INDOORS

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**Elena Galkina**

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**Alsu Gaysina**

ON THE EFFECTIVENESS OF SOME CONSTRUCTION AND TECHNOLOGICAL SOLUTIONS FOR NUCLEAR POWER PLANTS



**Elena Ignatova**

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**Alexander Mokrov**

THE DISTRIBUTED SYSTEMS OF ENGINEERING SUPERVISION OF  
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**Arthur Ahmetgaliev**

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**Boris Strigin**

FOUNDATION RECONSTRUCTION TECHNOLOGY

**Aleksandr Afanasiyev**

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## SEMINAR «YOUTH INNOVATIONS»

April 26 | 10.00 – 18.00 | Library recreational area

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**Д. Н. Алиева, Е. Х. Китайцева**

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**Т.В. Бардем**

**I – 2 АРХИТЕКТУРНОЕ НАПОЛНЕНИЕ ПОДЭСТАКАДНЫХ ПРОСТРАНСТВ (НА ПРИМЕРЕ ВОЛОКОЛАМСКОГО ШОССЕ Г. МОСКВА)**

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**I – 5 АДАПТАЦИЯ ТИПОВЫХ СЕРИЙ МНОГОКВАРТИРНЫХ ЗДАНИЙ ДЛЯ ОРГАНИЗАЦИИ ДЕТСКО-ЮНОШЕСКОГО ДОСУГА**

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**А.Е. Забелич, Н.В. Дятликова, А.Э. Хохлова**

**I – 9 ИСТОРИКО-АРХИТЕКТУРНЫЕ ОБСЛЕДОВАНИЯ ТРАДИЦИОННОГО ДЕРЕВЯННОГО ЖИЛОГО ДОМА В ВСЕХСВЯТСКОМ СКИТУ**

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**I – 21 МОРФОЛОГИЯ ГОРОДА КАК ИНСТРУМЕНТ УМНОГО  
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**М.А. Разаков, А.Г. Рымаров**

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**А.О. Симонов, С.С. Кадулин**

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**I. Karpisz, J. Rybak**

**П – 2 TESTING OF SOIL-CEMENT MATERIAL STRENGTH FOR DSM SAMPLES WITH FLY-ASH ADMIXTURES**

**J. Pyda, J. Rybak**

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**К.Ф. Баишев**

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**П – 5 КОМБИНАЦИЯ МЕТАЛЛА И СТЕКЛА В ИЗГОТОВЛЕНИИ ДЕКОРАТИВНОГО ПАННО**

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**Ю.Ю. Дядюн, Д.М. Сокол**

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**И.А. Ладных**

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**П – 20** САМОУПЛОТНЯЮЩИЙСЯ БЕТОН ДЛЯ ЗАВОДСКОГО ПРОИЗВОДСТВА ЖБИ

**М.М. Полянский, Н.Н. Фомина**

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ПОЛИМЕРЦЕМЕНТНЫХ СОСТАВОВ С РАСШИРЯЮЩИМИ  
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**Эльяс М.Б.**

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GEOMETRY OF INDUSTRIAL AND URBAN FACILITIES**

**Pawlik Marcin, Tadeusz Glowacki**

**III – 2 EVALUATION OF ACCURACY OF TOPOGRAPHIC MAP OF  
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**Е.А. Агрелова**

**III – 3 ОБЕСПЕЧЕНИЕ ПОЖАРНОЙ БЕЗОПАСНОСТИ РОССИЙСКОЙ  
ГОСУДАРСТВЕННОЙ БИБЛИОТЕКИ**

**М.С. Быканова, Н.В. Егорова**

**III – 4 ПРОИЗВОДНЫЕ ФОСФОНОВЫХ КИСЛОТ - НОВЫЕ  
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**В.А. Герасимов, О.В. Янцен**

**III – 5 К ВОПРОСУ О ПРОВЕДЕНИИ СТРОИТЕЛЬНЫХ МЕРОПРИЯТИЙ  
ПО НЕЙТРАЛИЗАЦИИ ЦИАНИСТЫХ СОЕДИНЕНИЙ НА ОЧИСТНЫХ  
СООРУЖЕНИЯХ**



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