



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
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- Dr. Peter Kotes, PhD, Vice-dean for Development and International Relations, Assoc. Prof. Department of Structures and Bridges. Civil Engineering Faculty, University of Zilina, Slovak Republic
- 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
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- Prof. Zbigniew Wójcicki, DSc, Professor, Department of Civil Engineering, Wrocław University of Technology, Poland

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- 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
- Dr. Pavel Kapyrin, PhD, Head of Scientific and Technical Department
- Gennadij Barov, Director of the filial branch MGSU

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Editors of Conference Proceedings:

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



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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	Registration of participants	Assembly Hall
10.10 – 10.40	Welcome Speeches	Assembly Hall
10.50 – 11.50	<p>Reports of key speakers:</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>Reports of key speakers:</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>WORKSHOP «SMART CITY»</p> <p>Section: Information technology and automation</p>	Lecture Hall 1
15.00 – 18.45	<p>WORKSHOP «MODERN BUILDING MATERIALS»</p> <p>Section: Concretes</p>	Hall of the Academic Council
15.00 – 18.30	<p>WORKSHOP «SAFETY IN CONSTRUCTION»</p> <p>Section: Safety and damage in civil engineering</p>	Lecture Hall 3

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

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

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

Show Program		
18.30- 21.00	«Miss & Mister Student MGSU»	Assembly Hall

April 27		
WORKSHOP «SAFETY IN CONSTRUCTION»		
9.00-9.30	Registration	Hall of the Academic Council
9.30-13.00	Section: Mathematical methods in construction	Lecture Hall No1
9.30-10.00	Registration of poster session participants and excursions participants	Hall of the Academic Council
10.00 – 12.00	POSTER SESSION	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	Closing ceremonies	Hall of the Academic Council

Special Event		
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 Safiulloev

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 Ciaramella

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

GYPHUM COMPOSITES REINFORCEMENT

Victoria Petropavlovskaya

INCREASE IN EFFICIENCY OF FORMATION STRUCTURE PROCESS OF
THE MODIFIED GYPHUM 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

WATER SECURITY AND THE TASKS OF HYDRAULIC CONSTRUCTION IN RUSSIA

Liubov Avdonina

ASSURANCE OF RELIABILITY OF HIGH-RISE BUILDING STRUCTURES AT DESIGN STAGE AS EXEMPLIFIED BY RESIDENTIAL BUILDING COMPLEX IN EKATERINBURG

Vladimir Margolin

THE INFLUENCE OF THE SECOND ROW OF PILES IN DOUBLE-ROW PILE RETAINING WALLS WITH THE STABILIZATION OF LANDSLIDE

Mariia Lavrova

OPERATIONAL DEPENDABILITY OF WATER INTAKE FACILITIES

Alexander Belkin

CONSTRUCTION STRENGTHENING IN HISTORICAL WOODEN CUPOLAS RESTORATION

Nataliya Fedorova

STRUCTURAL TRANSFORMATION OF REINFORCED CONCRETE STRUCTURAL SYSTEM AT SUDDEN LOSS OF STABILITY OF ONE OF ITS ELEMENTS

Alexey Demyanov

TO ESTIMATION OF THE SPATIAL CRACKS FORMATION IN REINFORCED CONCRETE STRUCTURES UNDER THE ACTION TORSION WITH BENDING

Duc Nang Bui

IMPROVING THE RELIABILITY WHEN DESIGNING FORMWORK FOLLOWING VIETNAM STANDARDS

Fedor Zhikharev

THE ANALYSIS OF THE WEAR PROCESS IN BUILDING CONSTRUCTIONS WITH THE USE OF THE THEORY OF STOCHASTIC FUNCTIONS

Nadezhda Smirnova

RELIABILITY ASSESSMENT OF WATERPROOFING SYSTEMS OF BUILDINGS UNDERGROUND PARTS

Valentin Ermakov

AUTOMATION REINFORCED CONCRETE STRUCTURES DESIGN MODELS BASED ON THE RESULTS TOMOGRAPHIC ULTRASONIC

Anatoly Bedov

CAD METHODS OF STRUCTURAL SOLUTIONS FOR REINFORCED CONCRETE FRAME

Mikhail Medyankin

THE INFLUENCE OF PLIABILITY OF SUPPORTS ON STATISTICALLY UNDEFINED REINFORCED CONCRETE ELEMENTS AT TEMPERATURES UNDER -50°C

WORKSHOP «NEW CONSTRUCTION TECHNOLOGIES »

Alexey Anufriev

CONDITIONS OF THE TRANSFORMATION OF THE LANDSCAPE OF THE RESIDENTIAL QUARTER DEVELOPED IN THE 1950S-1960S IN THE MASS RENOVATION

Vitaly Khvan

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

Gulnaz Ziyaltdinova

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

Tatiana Khripko

BASIC PROVISIONS FOR FORMING THE PARAMETER-ORIENTED MODEL OF CONTRACTORS SELECTION UNDER THE CONDITIONS OF ENGINEERING CONTROL SCHEME

Tatyana Kuzmina

THE STAGES OF DEMOLITION OF BUILDINGS OF THE FIRST INDUSTRIAL GENERATION

Nadezhda Cherednichenko

PROBLEMS OF RECONSTRUCTION OF FERROUS METALLURGY ENTERPRISES

Alexandr Orlov

INTRODUCTION OF INNOVATIVE TECHNICAL SOLUTIONS IN CONSTRUCTION ON THE BASIS OF THE CONCEPT OF ENGINEERING

Anastacia Ryzhkova

UNIFIED RESOURCES MARKING SYSTEM AS A WAY TO DEVELOP ARTIFICIAL INTELLIGENCE IN CONSTRUCTION

Alexei Pervov

MEMBRANE TECHNIQUES IN GROUNDWATER TREATMENT

Alexei Pervov

APPLICATION OF REVERSE OSMOSIS TECHNIQUES TO TREAT AND REUSE BIOLOGICALLY TREATED WASTEWATER

Ekaterina Perfilowa

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