

Preface

The International Scientific Conference “Construction and Architecture: Theory and Practice for the innovation Development” (CATPID-2019) was held from 01 to 05 October 2019 on the basis of Self-regulatory organization Association “Association of builders of the South and North Caucasus districts”, Kislovodsk. CATPID 2019 was the second time in a separate conference format.

The work of the conference was aimed at providing an opportunity for scientists, graduate students and representatives of the construction industry to generalize the recent achievements results in the field of industrial and civil construction (design, organization of all types of work, construction materials, etc.), discussing promising directions for the construction industry development and establishing useful partner relationships for future interaction.

The conference was held on numerous topics:

- Construction mechanics and theory of structures, civil and industrial engineering
- Architecture, design, reconstruction and restoration of architectural heritage
- Building materials and technologies of binders, concretes and building ceramics
- Organization and technology of construction production. Geodesy, cartography and photogrammetry
- Innovations in engineering services: heating, gas supply, ventilation and air conditioning, water supply and water removal
- Computational methods, mathematical models and information technologies in construction
- Operation and reliability of transport and technological machines and complexes
- Construction of roads, bridges, tunnels and airfields
- Economy in construction

796 participants from 44 regions of the Russian Federation and 19 participants from 8 countries of the near and far abroad (Abkhazia, Armenia, Bulgaria, Vietnam, Iraq, Kazakhstan, Lebanon, Ukraine) were registered for the conference in 2019.

The important problems of construction and architecture (from ideas and projects to immediate implementation) are raised and the ways of their solution and optimization are suggested in the reports presented in frameworks of these topics. Many reports were prepared as a benefit of the state support of science in forms of grants, federal target programs, resolutions of the Government of the Russian Federation and other programs.

Particular attention is paid to young researchers, whose works are evaluated separately. The general impression associated with the organization and holding of the conference is very positive.

The annual holding of such conferences is planned to be organized on the main topics of the construction industry.

Editors:

Batyr Yazyev

ps62@yandex.ru

Stepan Litvinov

litvstep@gmail.com

Anastasia Lapina

nastya-L1@yandex.ru

Oksana Akay

oksanaakay@gmail.com

Alina Golubeva

psalina@yandex.ru

Anastasia Kotesova

a.kotesova@mail.ru

Committees

Conference Chairman

Batyr Yazyev

Don State Technical University

Deputy Chairman of the Organizing Committee

Levon Mailyan

Self-regulatory organization Association “Association of builders of the South and North Caucasus districts”

Organizing Committee Co-Chairs

Pavel Akimov

Russian Academy of Architecture and Building Sciences

Yury Altudov

Kabardino-Balkarian State University named after H.M. Berbekov

Vladimir Andreev

Moscow State National Research University of Civil Engineering

Mukhtar Bekkiev

Mountain Geophysical Institute

Alexey Beskopylniy

Don State Technical University (Rostov-on-Don)

Gagik Galstyan

National University of Architecture and Construction of Armenia (Yerevan)

Evgeny Evtushenko

Belgorod State Technological University named after V.G. Shukhov

Kalashnikov Sergey Yurjevich

Volgograd State Technical University

Igor Konstantinov

Belgorod State University

Stepan Litvinov

Don State Technical University

Besarion Meskhi

Don State Technical University

Narine Pirumyan

National University of Architecture and Construction of Armenia (Yerevan)

Stanislav Roshchupkin

Sevastopol State University

Armen Ter-Martirosyan

Moscow State National Research University of Civil Engineering

Viktor Taratuta

Kuban State Agrarian University

Tolya Khezhev

Kabardino-Balkarian State University named after H.M. Berbekov

Stepan Litvinov

Don State Technical University

International Program Committee

Gagik Galstyan

National University of Architecture and Construction of Armenia (Yerevan)

Shan Yue

Shandong Jiaotong University

Narine Pirumyan

National University of Architecture and Construction of Armenia (Yerevan)

Lyu Chunguan

Shandong Jiaotong University

Amanshatov Chariyar

Deputy Director of the Academy of Sciences of Turkmenistan

Nafasov Erkin Nafasovich

Chief expert of Gosstroy of Turkmenistan

Hodzhaev Abbas Agzamovich	Tashkent Architecture and Civil Engineering Institute (TACII)
Ján Bujňák	Head of Department of Structures and Bridges, FCE UŽ, SK
Josef Vičan	Dean of FCE UŽ, SK
Kobuliev Zaynalobuddin Valievich	Institute of Water Resources and Ecology of the Academy of Sciences of the Tajikistan Republic
Zbigniew Wójcicki	FCE WrUT, PL
Stanisław Jemioło	FCE WUT, PL
Artur Zbiciak	FCE WUT, PL
Alejandro Valerio Pai Yang	México, Querétaro
Dietmar Wiegand	TU Wien, Austria
Vera Steiner	FH Wien, Austria
Milan Radosavljevic	Paisley, Renfrewshire, United Kingdom
Hellmich Christian	TU Wien, Austria
Grigoryan David Gamletovich	National University of Architecture and Construction of Armenia
Arzumanyan Artavazd Avetikovich	National University of Architecture and Construction of Armenia
Anna Zynzar	Shevchenko Transnistria State University
Maria Barabash	Shevchenko Transnistria State University
R. Giniavichus	Vilnius Gediminas Tech. Un., LTU
N. Danijarov	Karaganda St. Tech. Un., KAZ
O. Pruteanu	Tech. Un. "Gh. Asachi", ROU
Khashirova Svetlana Yurievna	Kabardino-Balkarian Federal University (KBGU)
Serdar Yazyev	Don State Technical University, Turkmenistan,

Organising Committee of the Conference (editorial board)

Stepan Litvinov	Don State Technical University
Alina Golubeva	Don State Technical University
Igor Dolbin	Kabardino-Balkarian State University named after H.M. Berbekov
Serdar Yazyev	Don State Technical University
Anastasia Lapina	Don State Technical University
Oksana Akay	Don State Technical University
Anastasia Kotesova	Don State Technical University
Svetlana Yazyeva	Don State Technical University
Kazbek Khashkhodzhev	Don State Technical University
Georgy Molokanov	Kabardino-Balkarian State University named after H.M. Berbekov
Luiza Seferyan	Don State Technical University
Sergy Klyuev	Belgorod State Technological University named after V.G. Shukhov