

Preface

The International Conference on Contemporary Problems of Architecture and Construction (ICPAC-2019) was held from October 14 - 16, 2019 on the basis National University of Architecture and Construction of Armenia. The first conference was organized in Armenia in 2008.

The work of the conference was aimed at providing an opportunity for scientists, graduate students and representatives of the construction industry to generalise 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 main topic of the conferenceis:

- *Construction materials and technologies of binders, concrete, modern materials in architecture*

Numerous participants from Armenia and abroad (China, Russian Federation, Poland, Italy, Georgia, USA) were registered for the conference in 2019.

The important problems of Construction materials and technologies of binders, concrete, modern materials in architecture (from ideas and projects to immediate implementation) are raised and the ways of their solution and optimisation 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 Armenia and other programs.

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

Annual holding of such conferences is planned to be organised on the main topics of the construction industry.

Editors:

1. Prof. Dr. Gagik Galstyan	National University of Architecture and Construction of Armenia	info@nuaca.am
2. Ph. Dr. Narine Pirumyan	National University of Architecture and Construction of Armenia	science@nuaca.am
3. Prof., Dr. Batyr Yazyev	Don State Technical University	ps62@yandex.ru
4. Assistant of Prof. Anastasia Lapina	Don State Technical University	nastya-L1@yandex.ru

Committees

Honorary Committee



GAGIK GALSTYAN

Doctor of science (engineering), Prof.Gagik Galstyan,



ZHANG AILIN

Prof., Rector of Beijing University of Civil Engineering and Construction



NORBERT SCZYGIOL

Prof., Rector of Czestochowa University of Technology



YEVGENIY RYBNOV

Doctor of science (economics), Prof., Rector of St. Petersburg State University of Architecture and Civil Engineering



VÁCLAV SNÁŠEL

Prof., Rector of VSB – Technical University of Ostrava



LUIGI DEI

Prof., Rector of University of Florence



ANDREY VOLKOV

Doctor of science (engineering), Prof., Rector of Moscow State (National Research) University of Civil Engineering (MGSU)



GELA KIPIANI

Doctor of science (engineering), Prof., vice-rector of Georgian State Aviation University



MERAB KHALVASHI

Ph.D. in archeology, associate prof., Rector of Shota Rustaveli State University



ALI MAHER

Ph.D. in engineering, Prof., Rutgers University

International Scientific Committee

Republic of Armenia



Doctor of science (engineering),
Prof. Gagik Galstyan, National University of
Architecture and Construction of
Armenia, info@nuaca.am



Doctor of science (architecture),
Prof. Yuri Safaryan, National University of
Architecture and Construction of Armenia,
science@nuaca.am



Ph.D in mathematics, Associate Prof. Vardges Yedoyan, National University of Architecture and Construction of Armenia,
edoyan@nuaca.am



Doctor of science (engineering), Associate Prof. Yeghiazar Vardanyan, National University of Architecture and Construction of Armenia, vardanyan@nuaca.am



Doctor of science (engineering), Prof. Arkadi Barkhudaryan, National University of Architecture and Construction of Armenia



Doctor of science (engineering), Prof. Eduard Khachiyan, National University of Architecture and Construction of Armenia, edkhach@sci.am



Ph.D in engineering, Narine Pirumyan, National University of Architecture and Construction of Armenia, science@nuaca.am



Doctor of science (engineering), Associate Prof. Tigran Dadayan, National University of Architecture and Construction of Armenia, sapce@rambler.ru

People's Republic of China



Prof. Zhang Ailin, Beijing University of Civil Engineering and Architecture,
zhangailin@bucea.edu.cn



Prof. Zhang Dayu, Beijing University of Civil Engineering and Architecture



Prof. Li Aiqun, Beijing University of Civil Engineering and Architecture



Prof. Qi Chengzhi, Beijing University of Civil Engineering and Architecture,
qichengzhi65@163.com

Republic of Poland



Dr Hab. inż. (engineering), Prof. Maciej Major,
Czestochowa University of Technology,
mmajor@bud.pcz.czest.pl



Dr hab., Assoc. Prof. Małgorzata Ulewicz,
Czestochowa University of Technology,
ulewicz@bud.pcz.czest.pl

Russian Federation



Doctor of science (engineering), Prof. Andrey Volkov, Moscow State (National Research) University of Civil Engineering (MGSU),
rector@mgsu.ru



Doctor of science (engineering), Prof. Ashot Tamrazyan, Moscow State (National Research) University of Civil Engineering (MGSU),
TamrazyanAG@mgsu.ru



Doctor of Technical Sciences, professor Batyr Yazyev , Don State Technical University,
ps62@yandex.ru



Doctor of science (pedagogical science), Irina Lugovskaya, St. Petersburg State University of Architecture and Civil Engineering,
prorector@spbgasu.ru

Czech Republic



Ph.D, Prof. Darja Kubecková, VŠB – Technical University of Ostrava,
darja.kubeckova@vsb.cz



Asoc. Prof., MSc. Jiří Brožovský, Ph.D., VŠB – Technical University of Ostrava,
jiri.brozovsky@vsb.cz

Italian Republic



Ph.D, Prof. Saverio Mecca, University of Florence, saverio.mecca@unifi.it



Ph.D, Prof. Paola Puma, University of Florence, paola.puma@unifi.it

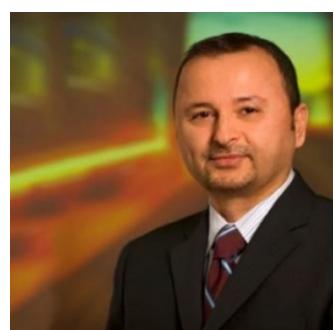


Ph.D., Anna Frangipane, University of Udine, anna.frangipane@uniud.it



Prof. Stefano Sorace, University of Udine

United States of America



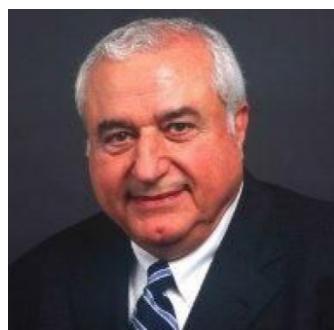
Ph.D in engineering, prof. Ali Maher, Rutgers University, mmaher@soe.rutgers.edu



Ph.D in engineering, prof. Nenad Gucunski, Rutgers University, gucunski@rci.rutgers.edu



Ph.D in engineering, prof. Mohsen Jafari, Rutgers University, jafari@rci.rutgers.edu



Prof. Vahan Tanal, President at Vahan Tanal Consulting, Inc., vahan@vtanalconsulting.com

Organizing Committee

Republic of Armenia

Doctor of science (engineering), Prof. Gagik Galstyan, National University of Architecture and Construction of Armenia

Doctor of science (architecture), Prof. Yuri Safaryan, National University of Architecture and Construction of Armenia

Ph.D in mathematics, Associate Prof. Vardges Yedoyan, National University of Architecture and Construction of Armenia

Ph.D in Engineering Narine Pirumyan, National University of Architecture and Construction of Armenia **Doctor of science (engineering), Associate Prof. Yeghiazzar Vardanyan**, National University of Architecture and Construction of Armenia

MSc Marine Ghazaryan, National University of Architecture and Construction of Armenia

Arev Samuelyan, National University of Architecture and Construction of Armenia

People's Republic of China

Prof. Qi Chengzhi, Beijing University of Civil Engineering and Architecture

Associate prof. Wu Xuan, Beijing University of Civil Engineering and Architecture

Dr. Chao Ma, Beijing University of Civil Engineering and Architecture

Poland

Dr Hab. inż. (engineering), Prof. Maciej Major, Czestochowa University of Technology

Dr hab., Assoc. Prof. Małgorzata Ulewicz, Czestochowa University of Technology

Dr Hab. inż. (engineering), Prof. Marlena Rajczyk, Czestochowa University of Technology

Russian Federation

Doctor of science (pedagogical science) Irina Lugovskaya, St. Petersburg State University of Architecture and Civil Engineering

Doctor of science (engineering), Prof. Ashot Tamrazyan, Moscow State (National Research) University of Civil Engineering (MGSU)

Czech Republic

Ph.D, Prof. Darja Kubečková, VŠB – Technical University of Ostrava

Asoc. Prof., MSc. Jiří Brožovský, Ph.D., VŠB – Technical University of Ostrava

USA

Ph.D in engineering, prof. Nenad Gucunski, Rutgers University

Ph.D in engineering, prof. Mohsen Jafari, Rutgers University

Prof. Vahan Tanal, President at Vahan Tanal Consulting, Inc.

Prof. David Michaelyan, Tishman Turner joint venture (TTJV)