

**9th INTERNATIONAL CONFERENCE ON CONTEMPORARY PROBLEMS
OF ARCHITECTURE AND CONSTRUCTION**
13-18 September, 2017, Batumi, Georgia
PROGRAM STRUCTURE

Shota Rustaveli Batumi State University 10.00-11.00 11.00-12.30 13.00-14.30	THURSDAY, SEPTEMBER 14, 2017 Registration of participants Opening of the conference, welcome speeches Lunch
Shota Rustaveli Batumi State University Technological Faculty (auditorium 202) 15.00-18.30	SESSION 1 Hydraulic Facilities Engineering; Civil Engineering, sustainable construction, materials CO-CHAIRMAN: David Gurgenidze, Chengzhi Qi Analysis of crack formation and seepage into the foundation of the Enguri HPP dam <i>M. A. Kalabegishvili, M.A. Sadunishvili Georgian Technical University, Tbilisi, Georgia</i> Analysis of dynamic response of in- service high speed railway tunnel with cavity defects in lining <i>Jun Dong[*], Yonggang Wang, Dongqing Li, Ren Ren, Chao Wang Beijing University of Civil Engineering and Architecture, China.</i> Stress analysis of the key parts in the cantilever construction process of Large scale cable stayed bridge tower <i>Liyang ZHANG¹, Jun DONG^{1*}, Hongzhan SHI¹, Shunchang MA¹, Chunguang REN²</i>

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*Beijing University of Civil Engineering and Architecture,
China*

**Study on construction and control of large
volume concrete in super-large cantilever
concrete pylon**

Hongzhan SHI¹, Jun DONG^{1}, Xuejian XIANG²*

Dianyuan LIU², Chunguang REN³

*Beijing University of Civil Engineering and Architecture,
China*

**Research on key technology of super-large
cantilever concrete tower construction of large
cable stayed bridge**

Hongzhan SHI¹, Jun DONG^{1}, Xuejian XIANG²*

Dianyuan LIU², Chunguang REN³

*Beijing University of Civil Engineering and Architecture,
China*

**Study on seismic dynamic response of super-
large cantilever concrete pylon structure of large
cable-stayed bridge**

Jun DONG^{1}, Hongzhan SHI¹, Xuejian XIANG²*

Dianyuan LIU², Bo LI³

*Beijing University of Civil Engineering and Architecture,
China*

**Performance of Self-centering Steel Frames with
Intermediate Columns Containing Friction
Dampers under High-magnitude Seismic Actions**

Yanxia Zhang¹, Hexin Zhang², Anran Liu², Yan Wang²

*Beijing University of Civil Engineering and Architecture,
China*

**Study on seismic dynamic response of super-
large cantilever concrete pylon structure of large
cable-stayed bridge**

Jun DONG^{1}, Hongzhan SHI¹, Xuejian XIANG²*

Dianyuan LIU², Bo LI³

Beijing University of Civil Engineering and Architecture,

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China

**Study on the vibration response of the existing
high speed railway tunnel with cavity defects in
lining**

Chao Wang¹ Jun Dong^{1a} Dongqing Li¹ Ren
Ren¹ Yonggang Wang¹*

*Beijing University of Civil Engineering and
Architecture, China*

**Experimental study on the effects of crack width
and depth on the chloride penetration of
concrete**

Jianfu Yu¹; Jun Dong^{2}; Chunxiang Kang¹
Beijing University of Civil Engineering and Architecture,
China.*

**Study on settlement and displacement of
adjacent buildings of excavations to corner effect**
Weihao WANG¹, Jun DONG^{2}, Jianrong PANG¹
Beijing University of Civil Engineering and Architecture,
China*

**Experimentale study on mechanical behavior of
new type steel-timber composite beam**

Guosong SHI¹, Jun DONG^{2}, Huifang CHEN¹
Beijing University of Civil Engineering and Architecture,
China.*

**Study on transition stage of nonlinear vibration
of underground strucrure under vertical seismic
action**

*Siran Shen , Chengzhi Qi , Yunpeng Guo
Beijing University of Civil Engineering and
Architecture, China;*

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	<p>The relationship between the fracture toughness and loading rate of rock-like materials <i>Hongsen Wang, Chengzhi Qi, Qinglei Li, Huating Zhu</i> <i>Beijing University of Civil Engineering and Architecture, China</i></p>
<p>Shota Rustaveli Batumi State University Technological Faculty (auditorium 204) 15.00-18.30</p>	<p>SESSION 2 ENVIRONMENTAL ENGINEERING, TRANSPORT PROBLEMS CO-CHAIRMAN: Jarosław Rajczyk, Sergey Evtyukov</p> <p>HE HYDRAULIC JUMP IN A CLOSED LINE <i>Albert Ya. Margaryan¹, Mariana P. Hakobyan^{2*}, Armine A. Gevorgyan¹</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p> <p>UNIFORM STATIONARY LAMINAR MOTION OF VISCOUS FLUID IN OPEN CHANNELS <i>Arestak A. Sarukhanyan</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p> <p>THE FORCAST OF GROUNDWATER LEVEL UNDER INFLUENCE OF NATURAL AND ARTIFICIAL FACTORS OF STRUCTURES AND AREAS <i>Emil Khachatryan¹, Artur Khachatryan^{1*}, Gevorg Hakobyan¹</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p>

**PROBLEMS OF CONSERVATION AND
USAGE OF WILD GREENS AND WAYS OF
THEIR SOLUTION IN ARMENIA**

Rafik H.Yedoyan¹, Tatevik V.Yedoyan^{2}*

¹Vanadzor State University, Vanadzor, Armenia,

*²National University of Architecture and Construction of
Armenia, Yerevan, Armenia*

**Study of Oscillations Damping Processes in
Vibrating Construction Machines**

Sergey Repin, Sergey Evtyukov

*Saint Petersburg State University of Architecture and
Civil Engineering, Saint Petersburg, Russian Federation*

**New technical possibilities for enhancing the
quality of architecture – material processing
technology by water cutting**

Jarosław Rajczyk

*Częstochowa University of Technology, Częstochowa,
Poland*

**University as a driving force for implementation
of the territories' development strategy (in the
case of Ekaterinburg and the Ural Federal
University)**

Viola Larionova, Natalia Stepanova

Ural Federal University (UrFU), Ekaterinburg, Russia

**Legal Problems of Providing Transport
Accessibility of Social Infrastructure Facilities
for Emergency Response Services in the
Transportation Security System**

Dmitry Ivanov

*Saint Petersburg State University of Architecture and
Civil Engineering, Saint Petersburg, Russian
Federation,*

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	<p>The combined method of phosphorus removal from municipal wastewater <i>G. Ambrosova, E. Matyushenko, A. Funk</i> <i>Novosibirsk State University of Architecture and Civil Engineering (Sibstrin), Novosibirsk, Russian Federation</i></p> <p>Exploration the possibility of using oil production waste in construction <i>Nana Dondoladze</i> <i>Batumi Shota Rustaveli State University, Batumi, Georgia</i></p>
<p>Shota Rustaveli Batumi State University</p> <p>Technological Faculty (auditorium 302)</p> <p>15.00-18.30</p>	<p>SESSION 3 PROBLEMS OF ARCHITECTURE CO-CHAIRMAN: Yuri A. Safaryan, Nino Imndaze</p> <p>The concept of systems with the multitiered circular organization of functional flows <i>Ashot Yu. Safaryan, Yuri A. Safaryan</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p> <p>Architectural-planning issues of organization of open spaces in historical city of Gyumri <i>Artyom A. Aloyan¹, Tatev R. Kartashyan</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p> <p>Elements of capitals' order system in the architecture of the ancient artashat <i>Aminia Kanetsyan</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p>

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	<p>Trends of development of residential buildings in Armenia in the new social and economic formation</p> <p><i>Emilia M. Sargsyan, Viktoria P. Voskanyan</i> <i>National University of Architecture and Construction of Armenia</i></p> <p>The preservation issues of the historical and architectural environment of Tigranakert in Artsakh</p> <p><i>Lyuba Kirakosyan</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p> <p>Total energy balance of windows in dependence on their structural design</p> <p><i>Iveta Skotnicova*, Lenka Lausova</i> <i>VŠB-Technical University of Ostrava, Ostrava, Czech Republic</i></p> <p>Initiatives towards improvement in energy performance in the Polish construction sector</p> <p><i>Lucjan Kurzak</i> <i>Czestochowa University of Technology, Poland</i></p>
<p>Shota Rustaveli Batumi State University</p> <p>Technological Faculty (auditorium 202) 10.00-13.00</p>	<p>Friday, September 15, 2017</p> <p>SESSION 1 Civil Engineering, sustainable construction, materials</p> <p>CO-CHAIRMAN: Tigran Dadayan, Gela Kipiani</p> <p>Dynamic Analysis of Tunnel Crossing soil-rock Boundary under Different Water Pressure</p> <p><i>Li Qinglei, Qi Chengzhi, Wang Hongsen, Liu Yingqi</i> <i>Beijing University of Civil Engineering and Architecture, China;</i></p>

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Geometry of sacral buildings

Aleksandra Repelewic¹

Czestochowa University of Technology Poland

**Innovative methods of strengthening the timber
constructions**

Marlena Rajczyk, Damian Joczyk, Bartłomiej Stacheck

Czestochowa University of Technology, Poland

**New construction and architectural solutions for
circular houses for the needs of humanitarian
and emergency capacity building projects**

*Marlena Rajczyk, Paweł Rajczyk, Vedna Ramzaha, Artur
Kiowski, Marcin Guzik*

*Czestochowa University of Technology, Czestochowa,
Poland*

**Forming of contemporary social
Housing estates – chosen issues**

Mariusz Zadworny

Czestochowa University of Technology, Poland

**Experimental verification of hypothetical
strength theory for gravel soils**

Anatoly Mirnyy, Armen Ter-Martirosyan

MSUCE, RUSSIA

**On one mixed boundary problem for an elastic
exponentially nonhomogeneous by depth layer
at antiplane deformation**

Siranush Avetisyan, Nune Grigoryan, Mger Mkrtchyan

*National University of Architecture and Construction,
Yerevan, Armenia*

**Contact problems on interaction of thin-walled
elements with an elastic layer under torsion**

*Zaven A. Davtyan, Anush V. Gasparyan, Shakespeare A.
Knyazyan*

*National University of Architecture and Construction of
Armenia, Yerevan, Armenia*

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**On water resistance of plastering mortars of
"Tatev" monastic complex and "govhar-agha"
mosques in Shushi**

Gagik Sh. Galstyan, Avetik A. Arzumanyan, Hovsep A. Hovyan

National University of Architecture and Construction of Armenia, Yerevan, Armenia

**On a class of mixed boundary-value problems of
continuum mechanics solveably by the integral
equations method**

Marine S. Grigoryan, Vardges H. Yedoyan

National University of Architecture and Construction of Armenia, Yerevan, Armenia

**The role and importance of drainage systems in
the reconstruction of damaged headwalls**

Vardges. I. Grigoryan, Ashot B. Grigoryan, Vahan V. Grigoryan

National University of Architecture and Construction of Armenia, Yerevan, Armenia

**On determination of velocities of transverse
seismic vibrations of soil particles in strong
earthquakes**

Eduard E. Khachiyan, Levon A. Levonian

*National University of Architecture and
Construction of Armenia, Yerevan, Armenia*

**Method of rectangular finite elements with
quadratic law of variation of components'
displacements along the circuit for solving plane
problems of Cosserat theory of elasticity**

Narine Pirumyan

National University of Architecture and Construction of Armenia, Yerevan, Armenia

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13.00-14.30	<p>Safety and Reliability Evaluation of Ancient Wood Structure Based on Dynamic Method <i>Xiufang Wang^{1a}, Mingcong Gao^{2c}, JunDong^{2b*}</i> <i>Beijing University of Civil engineering and Architecture, China</i></p> <p>Lunch</p>
Shota Rustaveli Batumi State University	<p>SESSION 1 Civil Engineering, sustainable construction, materials co-Chairman: Malkhaz Bediashvili, Armen Ter-Martirosyan</p>
Technological Faculty (auditorium 202)	<p>STUDY OF ANNULAR SLABS USING HERMITE'S FUNCTIONS <i>Poghosyan Manvel, Grigoryan Armine, Khalatyan Sargis</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p>
15.00-18.30	<p>ON INTERACTION OF CRACK TYPE STRESS CONCENTRATORS IN AN ELASTIC PLATE AND AN ABSOLUTELY RIGID THIN INCLUSION INDENTED INTO THE PLATE TAKING INTO CONSIDERATION THEIR ADHESION <i>Eghine Kanetsyan, Musheg Mkrtchyan, Suren Mkhitaryan</i> <i>National University of Architecture and Construction of Armenia, Yerevan, Armenia</i></p> <p>PROSPECTS OF NANOTECHNOLOGIES DEVELOPMENT OF CELLULAR GLASSES PRODUCTION ON THE BASIS OF VOLCANIC GLASS AND OTHER SILICATE</p>

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ROCKS OF ARMENIA

Artavazd A.Arzumanyan, Emma R.Sahakyan

National University of Architecture and Construction of Armenia, Yerevan, Armenia

**PROSPECTS OF NANOTECHNOLOGIES
DEVELOPMENT OF CELLULAR GLASSES
PRODUCTION ON THE BASIS OF
VOLCANIC GLASS AND OTHER SILICATE
ROCKS OF ARMENIA**

Artavazd A.Arzumanyan, Emma R.Sahakyan

National University of Architecture and Construction of Armenia, Yerevan, Armenia

**HEALTH MONITORING OF SEISMIC
ISOLATED BUILDINGS**

Artashes Sargsyan, Sargis Stepanyan

National University of Architecture and Construction of Armenia, Yerevan, Armenia

**THE STUDY OF CRACK PROPAGATION IN
THE BODY OF CONSTRUCTION USING THE
METHOD OF SECTIONS**

Gevorg V. Ter-Petrosyan

National University of Architecture and Construction of Armenia, Yerevan, Armenia

**BUILDING INFORMATION MODELING
FOR EXISTING RESIDENTIAL BUILDINGS
IN ARMENIA**

Marine Ghazaryan, Mher Markosyan

National University of Architecture and Construction of Armenia, Armenia

**THE USE OF MODERN ENGINEERING
DECISIONS IN BUILDINGS FOR DISASTER
RISK REDUCTION**

Guram Gabrichidze, Elguja Medzmariashvili, Gaioz Partskhaladze, Gocha Chavleshvili

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Georgian National Academy, Tbilisi, Georgia.

**International regulation of construction
development**

Nino Zurashvili

IV. Javakhishvili Tbilisi State University, Georgia

**The development of practical methods for the
calculation of thin-walled rod systems**

*Paata Gerasdze, Parmen Kipiani, Malkhaz Dograshvili
Akaki Tsereteli State University, Kutaisi, Georgia*

The first limit state at thermomechanical loading

Elguja Minadze, Omar Kikvidze

Akaki Tsereteli State University, Kutaisi, Georgia

**Rational technology for collecting spent
regeneration solution of cation exchangers and
its reuse.**

Zurab Megrelishvili

*Batumi Shota Rustaveli State University, Batumi,
Georgia.*

**The Calculation of the Retaining Wall Lying on
the Pressure Base**

Teimuraz Kikava

Professor of Batumi Shota Rustaveli State University

**Structural and architectural design in conditions
of the complex topography of Georgia**

Johni Gigineishvili, Igor Timchenko

Progresi Ltd. Engineering Center, Tbilisi, Georgia

**Current problems and application prospects of
different types of composite reinforcement
basalt-plastic rebars for concrete and for
strengthening of structures**

Joni Gigineishvili, Igor Timchenko, David Gigineishvili

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	<p><i>'Progresi' Ltd Engineering Center, Tbilisi, Georgia</i></p> <p>Numerical Modeling of Ventilation Flow Distribution in Subway Tunnels with Considering of the Piston Effect</p> <p><i>Omar Lanchava, Giorgi Nozadze, Zaza Khokerashvili Georgian Technical University, Tbilisi, Georgia</i></p>
Shota Rustaveli Batumi State University	<p>SESSION 4Engineering Sciences and Analysis, co-Chairman: Lusine Karapetyan, Johni Gigineishvili</p>
Technological Faculty (auditorium 305) 15.00-18.30	<p>Illustrated construction explanatory dictionary and its influence on the development of Georgian construction culture</p> <p><i>Levan Klimiashvili, Tamaz Khmelidze, David Gurgenidze, Kakhaber Khmelidze Georgian Technical University, Tbilisi, Georgia</i></p> <p>The role of urban logistics in the development of south Georgian tourism and recreation cluster</p> <p><i>T.K. Khoshtaria, N.T. Chachava Georgian Technical University, Tbilisi, Georgia</i></p> <p>Several Features of Building Reconstruction</p> <p><i>L. Balanchivadze, I. Chanturia Georgian Technical University</i></p> <p>Drivers of the Growth of the Russian Construction Sector</p> <p><i>Galina Tokunova, Svetlana Golovina Saint Petersburg State University of Architecture and Civil Engineering, Saint Petersburg, Russian Federation</i></p> <p>Solving problems of major repair of large-panel</p>

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building external walls

*Evgeny Smirnov, Evgeny Shesterov, Irina Drozdova
Saint Petersburg State University of Architecture
and Civil Engineering, Saint Petersburg, Russian
Federation*

**Tendencies of the Development of Historical
CitiesTaking Into Account Identification
Characteristics of the Established Urban
Environment**

*Fedor Perov, Aleksandr Panin
Saint Petersburg State University of Architecture and
Civil Engineering, Saint Petersburg, Russian Federation*

**ERVAND KOCHAR'S RELATIONS
WITH GEORGIAN ARTISTS AS
REFLECTED IN THE CONTEXT OF
ARCHITECTURAL MODERNIZATION OF
ERVAND KOCHAR MUSEUM**

*Karine Kochar
National University of Architecture and Construction of
Armenia, Yerevan, Armenia*

**TRADITIONS AND INNOVATION IN THE
ARCHITECTURE OF VASILI MIRZOYAN'S
RELIGIOUS STRUCTURES**

*Marietta Gasparyan
National University of Architecture and Construction of
Armenia, Yerevan, Armenia*

**DEVELOPMENT OF ENGINEERING
METHODS FOR CALCULATING
COMBINED PILE-RAFT FOUNDATION
(CPRF)**

*Vyacheslav Efimov, Anatoliy Osokin, Lidiya
Kondratieva
Saint Petersburg State University of Architecture and
Civil Engineering, Saint Petersburg, Russian Federation*

**FABRICS STRUCTURE AND ITS
REINFORCING EFFICIENCY IN
COMPOSITE “TEXTILE-CONCRETE”**

Tamar Moseshvili

Akaki Tsereteli State University, Kutaisi, Georgia

**INTERACTIVE ACCULTURATION AND
POST-COLONIAL CONSTRUCTION OF
URBAN IMMIGRANTS’ CULTURAL
IDENTITY: VANUATU AS A CASE STUDY**

Xuan Wu

*Beijing Higher Institution Engineering Research Centre
of Structural Engineering and New Materials, Beijing
University of Civil Engineering and Architecture,
Beijing 100044, China.*

**ON CONTEMPORARY CONNOTATION
OF BEIJING TRADITIONAL
ARCHITECTURAL CULTURE**

LIANG XU

*Beijing University of Civil Engineering and Architecture,
Beijing, P. R. China*

**STUDY ON SEISMIC RESPONSE OF
CANTILEVER STRUCTURE IN
CONSTRUCTION OF LARGE CABLE
STAYED BRIDGE PYLON**

Bowen ZHANG, Jun DONG, Hongzhan SHI,

Dianyuan LIU, Xuejian XIANG

*Beijing Higher Institution Engineering Research Center
of Structural Engineering and New Materials, Beijing
University of Civil Engineering and Architecture*

**STUDY ON TRANSITION STAGE OF
NONLINEAR VIBRATION OF
UNDERGROUND STRUCTURE
UNDER VERTICAL SEISMIC ACTION**

Siran She, Chengzhi Qi, Yunpeng Guo

Beijing Higher Institution Engineering Research Center

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	<p><i>of Structural Engineering and New Materials, Beijing University of Civil Engineering and Architecture</i></p> <p>Bearing capacity calculation of shear wall based on Artificial neural network system LUO Jian, LIU Jia, CHANG Yuan, JIUJIN Manzi <i>Beijing university of Civil engineering and architecture, Beijing</i></p> <p>Experimental Investigation on the Punching Capacity of Recycled Concrete Two-way Slabs Strengthened with CFRP Laminates Luo Jian, Du Chenxu, Liu Jia <i>Beijing university of Civil engineering and architecture, Beijing</i></p>
09.00-14.00 14.30	<p>Saturday, September 16, 2017</p> <p>Introduction of historical architectural and cultural heritage of Adjara</p> <p>Visit in following destinations:</p> <ol style="list-style-type: none">1. Botanical garden2. Dolphinarium3. Archeological museum4. Ethnographic museum <p>Lunch</p> <p>Sea beach</p>
Shota	Sunday, September 17, 2017

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Rustaveli Batumi State University	
10.00-13.00	Plenary session, summary of conference, decision on the venue of the next 10-th conference, conference closing ceremony
14.00	Lunch Sea beach
18.00	Banquette

Honorary Committee

- **Prof. Merab Khalvashi**, Rector of Batumi Shota Rustaveli State University, Georgia
- **Doctor of science (engineering), Prof. Gagik Galstyan**, Rector of National University of Architecture and Construction of Armenia, Armenia
- **Prof. Zhang Ailin**, Rector of Beijing University of Civil Engineering and Construction, China
- **Prof. Maria Nowicka-Skowron**, Rector of Czestochowa University of Technology, Poland
- **Doctor of science (economics), Prof. Yevgeniy Rybnov**, Rector of St. Petersburg State University of Architecture and Civil Engineering, Russia
- **Doctor of science (engineering), Prof. Ivo Vondrák**, CSc. Rector of VSB – Technical University of Ostrava, Czech Republic
- **Prof. Luigi Dei**, Rector of University of Florence, Italy
- **Doctor of science (engineering), Prof. Gela Kipiani**, President of NGO "Progress in Education and Science" Georgia

International Scientific Committee

GEORGIA

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- **Doctor of science (engineering), Prof. Guram Gabrichidze**, Academician of Georgian National Academy of science, Georgia
- **Doctor of science (engineering), Prof. Teimuraz Kikava**, Batumi Shota Rustaveli State University, Georgia
- **Doctor of science (engineering), Prof. Gocha Chavleshvili**, Batumi Shota Rustaveli State University, Georgia
- **Doctor of science (engineering), Prof. David Gurgenidze**, Georgian Technical University, Georgia
- **Doctor of science (engineering), Prof. Gela Kipiani**, Georgian Aviation University, Georgia

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- **Doctor of science (architecture), Prof. Gocha Mikiashvili**, Georgian Technical University, Georgia
- **Doctor of science (architecture), Prof. Nino Imnadze**, Georgian Technical University, Georgia
- **Doctor of science (engineering), Prof. Omar Kikvidze**, Akaki Tsereteli State University, Georgia

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
- **Doctor of science (mathematics), Prof. Suren Mkhitarian**, National University of Architecture and Construction of Armenia
- **Doctor of science (engineering), Prof. Tygran Dadayan**, National University of Architecture and Construction of Armenia
- **PhD (mathematics), Associate Prof. Vardges Edoyan**, National University of Architecture and Construction of Armenia

CHINA

- **Prof. Zhang Ailin**, Beijing University of Civil Engineering and Architecture
- **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**
- **Prof. Qi Jilin, Beijing University of Civil Engineering and Architecture**

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POLAND

- **Dr.Hab. (engineering), Assoc.Prof. Lucjan Kurzak,**
Czestochowa University of Technology
- **Doctor of science (engineering), Prof. Marlena Rajczyk,**
Czestochowa University of Technology
- **Doctor of science (engineering), Prof. Jaroslaw Rajczyk,**
Czestochowa University of Technology
- **Dr.Hab. (engineering), Prof. Macej Major,** Czestochowa University of Technology

RUSSIA

- **Doctor of science (economics), Prof.Evgeny Rybnov,** St. Petersburg State University of Architecture and Civil Engineering
- **Doctor of science (economics), Prof.Evgeny Smirnov,** St. Petersburg State University of Architecture and Civil Engineering,
- **Doctor of science (engineering) Sergei Evtyukov,** St. Petersburg State University of Architecture and Civil Engineering
- **Doctor of science (engineering), Prof. Albert Ya. Bashkarev,** Peter the Great St. Petersburg Polytechnic University
- **Doctor of science (engineering) Lidia Kondratyeva,** St. Petersburg State University of Architecture and Civil Engineering

CZECH REPUBLIC

- **Ph.D, Prof.Darja Kube ková,** VŠB – Technical University of Ostrava
- **Ph.D (engineering), prof. Radim ajka,** VŠB - Technical University of Ostrava
- **Ph.D (engineering), prof. Martin Krejsa,** VŠB - Technical University of Ostrava
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ITALY

- **Ph.D, Prof. Saverio Mecca**, University of Florence
- **Ph.D, Prof. Stefano Bertocci**, University of Florence
- **Ph.D, Prof. Paola Puma**, University of Florence
- **Ph.D, Prof. Francesco Collotti**, University of Florence

USA

- **Ph.D Mark Grigorian**, MGA, Structural Engineering Consultants inc.
- **Ph.D in Civil and Environment Engineering, Prof. Ali Maher**, Rutgers, the State University of New Jersey, CAIT
- **PhD, Prof. Nenad Gucunski**, Department of Civil and Environmental Engineering, Rutgers University

UKRAINE

- **Doctor of technical sciences, prof. Vitali Ploski**, Kyiv National University of Construction and Architecture
- **Doctor of technical sciences, prof. Alexander Gorodetski**. Kyiv National University of Construction and Architecture
- **Doctor of technical sciences, prof. Maria Barabash**. National Aviation University, LIRA SAPR.

CANADA

- **Doctor of science (engineering). Prof. Ardeshir Guran** Institute of Structronics, Ottawa

AUSTRALIA

- **Ph.D Martin Mamoun Kanan, John Holland Group**, Regional Engineering Manager - Infrastructure & Buildings, Pyrmont.
-

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