

Preface

Institute of Civil Engineering of Peter the Great Saint-Petersburg Polytechnic University presents International scientific conference "Advanced Materials and Technologies in Construction, Energy Production and Waste Treatment".

The conference is supported by Saint Petersburg authorities: Housing Committee, Construction Committee, Committee on Energy and Engineering Support.

The Organizing Committee grateful to all the distinguished authors and guests of conference AMTEWT-2016, was held on April 27-29, 2016, in Peter the Great Saint-Petersburg Polytechnic University, Saint Petersburg, Russia. Saint Petersburg (former Leningrad) is the second largest city in Russian Federation, politically incorporated as a federal subject of Russian Federation. It is located on the Neva River at the coast of the Gulf of Finland on the Baltic Sea.

Guest editors: Vera Murgul, Nikolai Vatin and Alenka Fikfak.

The conference provides a platform to discuss contemporary material science problems with participants from different countries. Many of the pressing scientific problems are due to the limitations of the materials that are available and, as a result, breakthroughs in materials science are to have a significant impact on the future of technology. Success of the conference AMTEWT is reflected in the papers received, with participants coming from several countries, allowing a real multinational multicultural exchange of experiences and ideas.

The present volumes collect accepted papers and represent an interesting output of this conference. This book covers these topics:

Chapter 1: Building Materials for Buildings and Structures

Chapter 2: Chemical Technologies in Energy Production and Waste Treatment

All the organizing members will be committed us to make AMTESD-2016 more and more professional with fully and enjoyable academic research and discussion platform for authors and attendees.

On behalf organizing committee, we would like to especially thank Andrey Lunev, Ksenia Indeykina, Ekaterina Antonova and all the editors from journal Materials Science Forum for the great support to AMTESD-2016

Nikolai Vatin & Vera Murgul

Scientific Committee

Name	Position	University	Country
Arturas Kaklauskas	D.Sc., Professor	Vilnius Gedeminas Technical University Arturas.kaklauskas@vgtu.lt	Lithuania
Markku Heinisuo	Dr.Sc., Director of Research Centre of Metal Structures	Tampere University of Technology markku.heinisuo@tut.fi	Finland
Florian Nepravishta	PhD, Ass. Professor, Chief of Department of Architecture	Tirana Polytechnic University of Tirana f_nepravishta@yahoo.com	Albania
Zarui Mamyan	PhD, Ass. Professor	Yerevan State University of Architecture and Construction info@ysu.am	Republic of Armenia
Milena Kichekova	PhD, Ass. Professor, Head of Department of Construction Engineering	Varna Free University «Chernorizets Hrabar» amina67@gmail.com	Bulgaria
Leonovich S.N.	D.Sc., Professor, Head of the Construction Technology Department	Belarusian National Technical University sleonovich@mail.ru	Belarus
Tomas Hanak	PhD, Ass. Professor, Faculty of Civil Engineering	Brno University of Technology hanak.t@fce.vutbr.cz	Czech Republic
Vesna Dragčević	Dr.Sc., Professor, Dean of the Faculty of Civil Engineering	Zagreb University of Zagreb vesnad@grad.hr	Croatia
Erik Bessimbayev	Dr.Sc., Professor, Director of Institute	Kazakh National Technical University named after K.I.Satpayev, Almaty Erik.bessimbaev@mail.ru	Kazakhstan
Alberto Borboni	PhD, Ass. Professor	University of Brescia, Brescia alberto.borboni@unibs.it	Italy
Anatolijs Borodinecs	Dr.Sc., Professor, Institute of Heat, Gas and Water Technology	Riga Technical University anatolijs.borodinecs@rtu.lv	Latvia
Luís Bragança	Dr.Sc., Professor, Director of the Building Physics & Technology Laboratory	Guimaraes University of Minho braganca@civil.uminho.pt	Portugal
Paulo Cachim	PhD, Professor Department of Civil Engineering	University of Aveiro pcachim@ua.pt	Portugal

Aires Camões	Ph.D, Vice-Director Building Physics & Technology Laboratory	Guimaraes University of Minho aires@civil.uminho.pt	Portugal
Vladan Djokic	DSc., Professor, Dean of Faculty of Architecture	Belgrade University of Belgrade vdjokic@arh.bg.ac.rs	Serbia
Meri Cvetkovska	PhD, Ass. Professor, Vice-Rector for International Cooperation	Skopje Ss. Cyril and Methodius University in Skopje m.cvetkovska@ukim.edu.mk	Macedonia
Sladkovskiy Alexsandr	Dr.Sc.Ing.	Silesian University of Technology	Poland
Alenka Fikfak	PhD, Ass. Professor, Chief of department Urban Planning	Ljubljana University of Ljubljana alenka.fikfak@fa.uni-lj.si	Slovenia
Milorad Jovanovski	PhD, Professor, Faculty of Civil Engineering	Skopje Ss. Cyril and Methodius University in Skopje jovanovski@gf.ukim.edu.mk	Macedonia
Vladimir Korsun	Dr.Sc., Professor	Donbas National Academy of Civil Engineering and Architecture korsun_vi@mail.ru	Ukraine
Melnikov B.E.	Dr.Sc., Professor, Chief of Department	Peter the Great Saint-Petersburg Polytechnic University melnikovboris@mail.ru	Russia
Mushchanov V.Ph.	Dr.Sc., Professor, Vice-Rector for Research	Donbas National Academy of Civil Engineering and Architecture volodymyr.mushchanov@mail.ru	Ukraine
Roman Orlovich	D.Sc., Professor	West Pomeranian University of Technology, Szczecin orlowicz@mail.ru	Poland
Leonidas Pakrastiņš	Dr.Sc., Professor	Riga Technical University Leonids.pakrastins@rtu.lv	Latvia
Svetislav Popovic	PhD, Ass. Professor, Dean of the Faculty of Architecture	Podgorica University of Montenegro svetislav@ac.me	Montenegro
Zdenka Popovic	Dr.Sc., Professor, Chief of Department	Belgrade University of Belgrade popovic_zdenka@yahoo.com	Serbia
Miroslav Premrov	Dr.Sc., Professor, Dean of the Faculty of Civil Engineering	Maribor University of Maribor miroslav.premrov@um.si	Slovenia
Goran Radovic	PhD, Ass. Professor, Faculty of Architecture	Podgorica University of Montenegro rgoran@ac.me	Montenegro

Biljana Stamatovic	Dr.Sc., Professor	Donja Gorica University of Donja Gorica biljana.stamatovic@udg.edu.me	Montenegro
A.S. Taubaldiyeva	PhD, Ass. Professor, Dean of General Constraction Faculty	International Educational Corporation nfe.aksaule@mail.ru	Kazakhstan
Milan Veljkovic	Dr.Sc., Professor	Lulea Lulea University of Technology Milan.Veljkovic@ltu.se	Sweden
Vesna Žegarac-Leskovar	PhD, Ass. Professor	University of Maribor Faculty of Civil Engineering vesna.zegarac@um.si	Slovenia