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Preface

Traditional International Conference "Modern Building Materials, Structures and Techniques" has been organized since the first one, organized by the Faculty of Civil Engineering of Vilnius Gediminas Technical University in 1991. Since the fourth conference (held in 1995) it was joined by the Lithuanian Academy of Sciences. Since 2001, the International Association for Bridge and Structural Engineering (IABSE) became the official sponsor of the Conference, and the Faculty of Civil Engineering of Vilnius Gediminas Technical University is a collective member of IABSE since 1993. Starting in 2004, the Association of European Civil Engineering Faculties (AECEF) and the European Council of Civil Engineers (ECCE) have also become the official sponsors of the Conference. The 11th International Scientific Conference on Modern Building Materials, Structures and Techniques will take place on 16–17 May 2013, in Vilnius, Lithuania.

Civil engineering, as one of the technological sciences trends, determines not only the development of industry, energetics and transport but also directly influences the safety and quality of human life. The creation of modern building materials and structures, the application of the most advanced technologies and methods of calculating, research and assessment defines the design, construction and safe operation of buildings, bridges and civil engineering projects. In turn, it also determines the development of the science of construction engineering.

The organizers continue the tradition of previous conferences, which is to organize a conference on multiple types of civil engineering science. In addition to a discussion on the scientific problems, such conferences allow the sharing of the experiences of theoretical and practical training of civil engineering specialists, with other universities.

During these traditional conferences, the most relevant present problems of the civil engineering science and those of practical activities will be analyzed. The main themes of the conference are: building materials and production technology; innovative analysis and design methods for building structures; behavior and design of concrete, masonry, glass, steel, timber and composite structures; analysis and design of bridge structures; optimization in structural engineering; geotechnics; construction technology and organization; decision making, decision support systems and management in construction; building information system; facility and real estate management.

The Conference's Scientific Committee has selected 162 papers, submitted from 23 countries for oral and poster presentation. The "Procedia Engineering" issue contains full text of the papers presented at the Conference "Modern Building Materials, Structures and Techniques". For the first time, the Proceedings are published in an electronic way.

This event will be another high-quality event in the endeavor to globally assemble the academic researchers, engineers, managers and professionals with a purpose of exchanging know-how's and ideas regarding trend-setting civil engineering for the future.

The chairpersons of the Conference would like to take this opportunity to express their sincere thanks to the authors of the articles, for interesting and significant presentations. Special thanks are due to the MBMST-2013 International Scientific Committee members that acted as paper reviewers. We would like to express our gratitude to members of the Organizing Committee for significant technical help and also thank the sponsors of the Conference for financial support.

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