

FOREWORD

The the 2nd International Conference on Bio-based Building Materials ICBBM2017 is an international forum for information dissemination and exchange, discussions and debates on research and practice related to innovative bio-construction materials and technologies with objectives for sustainable development.

ICBBM 2017 was organised at Clermont Ferrand on June 22-24, 2017.

"We aim to be this century's leader in sustainable materials". Biomaterials are processed or engineered products obtained partially or fully from renewable biobased resources, including: natural fibre composites, bioplastics, biorubbers, biofoams, bioadhesives, bioinks, biobased paints and coatings.

This is a Special Issue of ACADEMIC Journal of Civil Engineering dedicated to the publication of the papers of ICBBM207 including the lectures and papers presented at ICBBM conference. It consists of a SI of full texts of papers: 102 technical papers from over 41 countries. The keynotes, the papers and poster papers were presented in four parallel sessions which covered a wide spectrum of the topics related to natural fibres and materials, mechanical performances of bio-based building materials, hygroscopic and hygrothermal properties of biomaterials, acoustic and durability performance of bio-materials, eco-friendly binders with low CO2-emission and low embodied carbon energy, advances in research methodologies and bio-materials testing, rammed earth, life-cycle assessment of materials and others.

The conference attracted 266 people from 41 countries representing a wide range of academics, scientists, researchers, students, designers, policy makers and other industrialists from a wide variety of backgrounds, including fields of engineering, materials, sustainable, architecture, and ecological technologies, biomaterials, materials sciences, environmental engineering and government agencies, en-users, etc.

Participants have the opportunity to share ideas on the state-of-the-art innovations, state-of-the-practice and future trends of bio-based building materials and sustainable materials used in construction.

All the contribution were selected and are presented in this special issue benefits of regular peer reviewing by the Scientific Committee of ICBBM.

On behalf of the local organizing committee of ICBBM2017, we would like to take this opportunity to express our sincere thanks to all our contributors and participants for their carefully prepared, stimulating and thought provoking manuscripts; to the members of the Technical and Scientific Committee for their time and effort of reviewing the papers and their valuable assistance, without which the conference could not be formed.



The organization of a conference of this scale could not have been possible without the support and contributions of many organizations and individuals, notably without the financial support given by the numerous sponsors. We also value the support of RILEM organization (The International Union of Laboratories and Experts in Construction Materials, Systems and Structures) and American Concrete Institute (ACI).

Thanks go to all those who have devoted their time and effort to the organization of the conference and publication of the proceedings, including secretarial staffs and research students of the ICBBM2017 for their diligent work and commitment to bring this conference to great success!

Prof. Sofiane Amziane (Chair of the Conference)

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