



Organized by



<http://www.fsr.ac.ma/cmss/>

Preface

The International Congress on Materials & Structural Stability, CMSS-2013, was held in Rabat, Morocco, November 26-30, 2013. It was organized by the Association Science of Materials and Technology of Construction (ASMATEC) of the University MohammedV-Agdal, Rabat.

Members of the Organizing Committee have the honor to say to His Majesty King Mohammed VI, their deep gratitude for His high patronage of this congress and for the generous solicitude that he keeps to researchers and scientific research.

The proceedings of the International Congress CMSS-2013, contain scientific papers, written by groups of well-known scientists, as well as by younger researchers whose presence and participation, have contributed, not only to the success of the congress, but also to scientific and technological development in the area of engineering, applied materials science and structures, aspects of innovation in civil engineering, and building materials. This note is intended to acknowledge the contributions of all authors.

Some recommendations, discussed and retained at the end of the Congress, allow each other to be fully informed and serve as references for the actions and initiatives to be taken at their responsibilities.

1) Use of mineral additives in addition to cement based specific building specifications. These additions are:

- Classified and unconventional Fly ash
- Blast furnace slag
- Limestone fillers
- Sand crushing aggregates
- Sands recycled from the destruction of concrete
- Waste water treatment plants
- Glass powders

2) Continue exploring ways of alkaline activation for producing hybrid cements

3) Use and promote the fiber concrete by the use of different types of natural or synthetic fibers

4) Promote new concrete produced by less energy either during the production or on the implementation by promoting recycling materials or by-products.

5) Enhance co products, such as shell, wood chips for specific uses like draining pavers or in thermal insulation and alleviation

6) Further research on the production of new clinkers by low energy consumption and less production of CO₂.

7) Encourage the adoption of new processes and optimization of clinkerisation suitable for absorption of various industrial wastes

8) Further research on the incorporation of inorganic by-products to improving the durability of concrete against external aggression

9) Promote the seismic retrofit of existing buildings (historic and of primary importance).

10) Develop research on soil-structure interactions and fluid-structure (dams and coastal buildings).

11) Proceed to achieve micro zoning (site effect) for any development project (new towns, expansion of existing cities, dams, ports, tunnels, etc.).

12) Consider the vulnerability of watersheds before any construction project.

Association Sciences des Matériaux et Technologies de Construction

✉: 4 Avenue Ibn Battouta, BP 1014 RP, Faculté des Sciences, Rabat
Tel / Fax: +212 (0) 537 775 440 - Email: aasmatec@yahoo.fr
<http://asmatec.webs.com/>

This is an Open Access article distributed under the terms of the Creative Commons Attribution License 2.0, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Article available at <http://www.matec-conferences.org> or <http://dx.doi.org/10.1051/mateconf/20141100001>



Organized by



- 13) Taking into account the effects of the Tsunami, waves of large amplitude and rising sea levels due to climate change in coastal development projects (buildings, equipment).
- 14) Establish standards taking into account the geotechnical context.
- 15) Contribute to the development of geotechnical maps
- 16) Develop new methods and techniques to approach the recognition of the soil and subsoil
- 17) Raise awareness of engineers in the field of construction to the application of seismic building codes

We would like, on behalf of the organizing committee of CMSS-2013, to express our sincere thanks to the plenary and invited lecturers for their contribution to the conference. The organizers of this edition have established a practical program which consists of 12 plenary lectures, 18 Keynotes, 120 oral communications and 220 poster presentations by adopting a digital screen format.

The association ASMATEC assumed the cost of publishing of 170 selected articles from authors who have accepted their publication in journals: MATEC Web of Conferences, Chemistry and Materials Research and Civil and Environmental Research.

At the same time, we would like to address a special thanks to all our partners and supporters and thank all participants to the Conference, as well as PhD students, colleagues and friends who meaningfully helped in maintaining high standards to the organization.

For the Organizing Committee

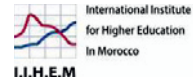
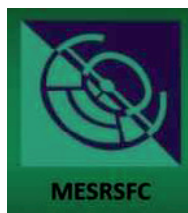
Mohammed ALAMI TALBI

Nacer KHACHANI

Abdeljebbar DIOURI

Rabat, February 2014

Partnership



Association Sciences des Matériaux et Technologies de Construction

✉: 4 Avenue Ibn Battouta, BP 1014 RP, Faculté des Sciences, Rabat

Tel / Fax: +212 (0) 537 775 440 - Email: aasmatec@yahoo.fr

<http://asmatec.webs.com/>