

Preface

The second International Seminar INNOVATION & VALORIZATION IN CIVIL ENGINEERING & CONSTRUCTION MATERIALS, INVACO2, was held in Rabat, Morocco, November 23 - 25, 2011. It was organized by the Association Science of Materials and Technology of Construction (ASMATEC) of the University MohammedV-Agdal, Rabat. The objective of this international event, in its second edition, was to bring together researchers and scientists from academia, industry and laboratories from different countries to present their new results and allow participants to identify future directions of research in construction science, civil engineering and materials. The scientific event has amply accomplished this goal. The event has attracted a representative international scientific community in construction science. The organizing committee received many submissions, about 400 abstracts. A committee of a first evaluation has carried out the selection of 254 abstracts. After notification of acceptance and call for papers, the committee received 200 draft articles from which 158 papers were reviewed, accepted and distributed in the proceedings of the seminar to about 240 participants from over twenty countries.

We would like, on behalf of the organizing committee of the INVACO2, 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, 60 oral presentations and 74 posters by adopting a digital screen format.

The association ASMATEC assumed the cost of publishing of 40 selected articles from authors who have accepted their publication in the journal MATEC Web of Conferences.

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
Coordinators of INVACO2

Mohammed ALAMI TALBI

Nacer KHACHANI

Abdeljebbar DIOURI

Rabat, July 2012

Partnership



Organizing Committee

ALAMI TALBI Mohammed, Faculté des Sciences, Rabat (Maroc)
ARIDE Jillali, Ecole Normale Supérieure, Tétouan (Maroc)
ASSANI Abderrazzak, Faculté des Sciences, Rabat (Maroc)
BELQAT Bouchra, Faculté des Sciences, Rabat (Maroc)
BENDAOUD Salah, Ecole Normale Supérieure, Rabat (Maroc)
BERNARD Fabrice, Institut National des Sciences Appliquées, Rennes (France)
BOUKHARI Ali, Faculté des Sciences, Kenitra (Maroc)
BOULILA Ali, Institut Supérieur des Etudes Technologiques, Sfax (Tunisie)
DIOURI Abdeljebbar, Faculté des Sciences, Rabat (Maroc)
ELACHOURI Mohammed, Ecole Normale Supérieure, Rabat (Maroc)
EL AMMARI Lahcen, Faculté des Sciences, Rabat (Maroc)
GARGOURI Ahmed, Institut Supérieur des Etudes Technologiques, Sfax (Tunisie)
KAMALI-BERNARD Siham, Institut National des Sciences Appliquées, Rennes (France)
KHACHANI Nacer, Faculté des Sciences, Rabat (Maroc)
LAMDOUAR Nouzha, Ecole Mohammadia d'Ingénieurs, Rabat (Maroc)
MAKNI Moncef, Institut Supérieur des Etudes Technologiques, Sfax (Tunisie)
MLIHA TOUATI Mohammed, EMI, Rabat (Maroc)
NABIH Khadija, Faculté des Sciences, Rabat (Maroc)
RANGEARD Damien, Institut National des Sciences Appliquées, Rennes (France)
SAADAoui Malika, Ecole Mohammadia d'Ingénieurs, Rabat (Maroc)
SAADI Mohammed, Faculté des Sciences, Rabat (Maroc)
SASSI Omar, Ecole Normale Supérieure, Rabat (Maroc)
TAIBI Mhamed, Ecole Normale Supérieure, Rabat (Maroc)
ZRIOUIL Mohammed, Faculté des Sciences, Rabat (Maroc)

Scientific Committee

AIT BRAHIM Lahcen, Faculté des Sciences, Université Mohammed V-Agdal, Rabat, Maroc
BAHAR Ramdane, Université Mouloud Mammeri de Tizi-Ouzou, Algérie
BEN OUEZDOU Mongi, Ecole Nationale d'Ingénieurs de Tunis, Tunisie
BENTZ Dale, National Institute of Standards and Technology, Gaithersburg, United States of America
BREYSSE Denis, Université de Bordeaux 1, France
CHALLAMEL Noël, Institut National des Sciences Appliquées de Rennes, France
CLASTRES Pierre, Institut National des Sciences Appliquées de Toulouse, France
DIOURI Abdeljebbar, Faculté des Sciences, Université Mohammed V-Agdal, Rabat, Maroc
EL WARTITI Mohamed, Faculté des Sciences, Université Mohammed V-Agdal, Rabat, Maroc
KHEMAKHEM Mehrez, Institut Supérieur des Etudes Technologiques de Sfax, Tunisie
LOUKILI Ahmed, Institut de Recherche en Génie Civil et Mécanique, Centrale Nantes, France
MLIHA TOUATI Mohammed, Ecole Mohammadia d'Ingénieurs, Université Mohammed V-Agdal, Rabat, Maroc
MORANVILLE Micheline, Ecole Normale Supérieure de Cachan, France
PUERTAS Francisca, Eduardo Torroja Institute for Construction Science, Madrid, Spain
ROUSSEAU Patrick, Institut des Risques Industriels et Assurantiels, Université de Poitiers, France
SAADAoui Malika, Ecole Mohammadia d'Ingénieurs, Université Mohammed V-Agdal, Rabat, Maroc
YE GUANG, Delft University of Technology, Netherlands