INTRODUCTION

The continuous growth in the construction industry due to the increasing demand has imposed substantial economic and environmental implications. This has motivated significant research efforts on novel materials and their applications in construction for a more sustainable, economic, greener and durable built environment. Innovative building material research has achieved significant leaps over the last decade. This conference is the second of a planned series of conferences aiming at gathering and sharing multi-scale thematic researches on innovative building materials ranging from altering material properties using nano-technology to the performance of macro elements and structural systems.

OBJECTIVE

The conference aims to stimulate international collaborative research on innovative building materials and their novel applications in construction. The conference provides an avenue for researchers, scientists and practicing engineers from across the globe to share and exchange ideas and experience in cutting edge innovative building material research and practice.

CONFERENCE CONTACTS

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Conference Chairman
Prof. Khalid El Zahaby
Chairman, Housing & Building National Research Center

Conference Vice-Chairs
Prof. Khalid Yousri
Vice Chairman, HBRC
Prof. Ahmed El Gabry
Head, Building Materials & Quality Control Institute

Conference General Secretary
Prof. Hosam Elkarmoty
Dr. Anwar Mahmoud
**CONFERENCE THEMES**

1. Low Cost Building Materials
2. Novel Applications of Blended Cements
3. Ultra High Performance Concretes
4. Shape Memory Alloys
5. Applications of Nanotechnology in Building Materials
6. Structural Elements from Innovative Materials
7. Recycling in Building Construction
8. Material Science & Microstructural Aspects
9. Green Building Materials
10. Quality Control in Mega-Structures
11. Durability of Novel Building Materials
12. Innovative Materials in Repair Applications
14. Fire Performance of Building Materials
15. Innovations in Concrete Admixtures
16. Geopolymers and Clinker-Free Cements
17. Computer-Aided Material Multi-scale Modeling
18. Sustainability and Environmental Aspects in Construction
19. Special Concretes
20. Materials in Lifelines, Pavements and Infrastructures

**VENUE**

The conference will be held at Royal Maxim Kempinski Hotel located in New Cairo Area, Cairo. Cairo is located at the apex of the River Nile Delta and it can be reached by international airlines from most major cities in the world. The conference is organized by the Building Materials Research Institute, BMI, of HBRC. HBRC is the largest building research institute in North Africa and the Arab Region. HBRC researchers conduct interdisciplinary research in the areas of structural engineering, mechanics and materials, architectural engineering, mechanical engineering, and environmental engineering as they relate to serve the construction industry. Besides, HBRC is the sole authority in Egypt to author and publish building codes and standards. Learn more about HBRC by visiting: [www.hbrc.edu.eg](http://www.hbrc.edu.eg)

**EXHIBITION**

The conference will provide an opportunity for international and local companies to display their latest products, services and projects related to Innovative Building Materials.

**IMPORTANT DATES**

- Call for Papers: 15 April, 2018
- Abstract Deadline: 30 June, 2018
- Acceptance of Abstracts: 15 July, 2018
- Early Bird Registration: 20 July, 2018
- Full Paper Deadline: 15 August, 2018
- Full Paper Acceptance: 15 September, 2018
- Late Registration Deadline: 1 October, 2018
- Revised Paper Deadline: 15 October, 2018
- Revised Paper Acceptance: 1 November, 2018

**REGISTRATION**

**International Delegates**

- Early Bird $400
- Late Registration $475
- On-site registration $550

**Students (with valid ID)**

- Early Bird $50
- On-site registration $200

**Guests**

- Early Bird $350
- On-site registration $650

Full conference registration fees include proceedings CD, refreshments & lunches for all participants and also a welcome reception for non-students. Please refer to conference contacts to confirm your registration.

**PAPER SUBMISSION**

Abstracts of no more than 250 words and full papers should be submitted electronically in MS word format. Manuscripts should not exceed 12 pages formatted on A4 paper size. The text should include the title, authors’ names, affiliations, and their email addresses. Abstract and paper templates are available on HBRC website at [www.hbrc.edu.eg](http://www.hbrc.edu.eg)

**LANGUAGE**

The Conference official language is English. Special Arabic sessions will be arranged for distinguished Arab country manuscripts.

**CONFERENCE PROCEEDINGS**

Selected high quality papers may be considered for publication in the Housing & Building National Research Center Journal, published by Elsevier.

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- Prof. Claudia Ostertag, University of California, Berkeley, USA
- Prof. Mohamed ElGawady, Missouri Science & Tech, USA
- Prof. M. Shahrira Allam, University of British Columbia, Canada
- Prof. Murat Saatcioglu, University of Ottawa, Canada
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