

Simpósio sobre Modelagem Computacional de Concreto e Estruturas de Concreto Symposium on Computational Modeling of Concrete and Concrete Structures (together with the 57th Brazilian Congress on Concrete)

Bonito – Mato Grosso do Sul – Brazil
October 27 - 30, 2015

Organized by:



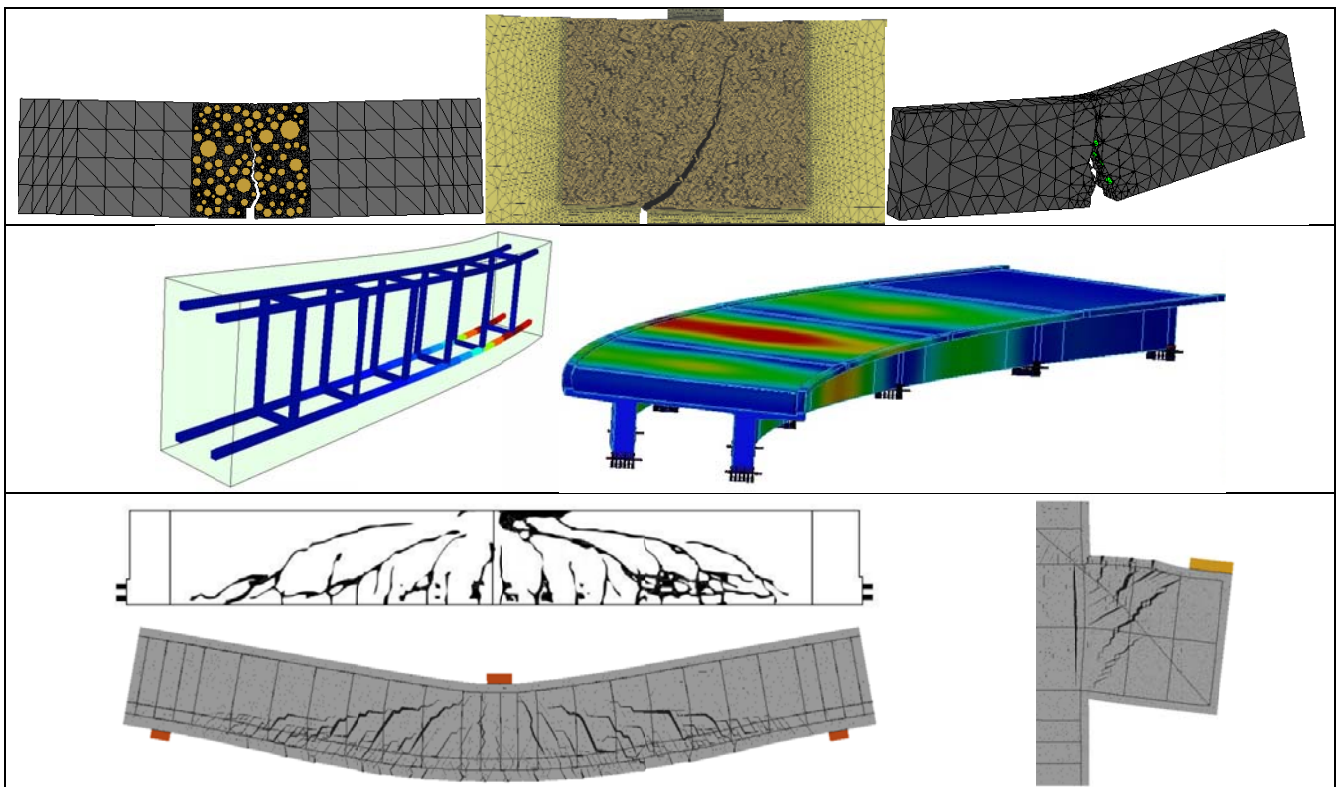
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1 – INTRODUCTION

Due to the increasing complexity of concrete applications, both in terms of structural systems and materials associated with concrete, the demand for computational resources capable of simulating the structural behavior in different scales has increased considerably. The proposed Symposium on Computational Modeling of Concrete Structures and Materials, to be held in Bonito-MS, together with 57th Brazilian Congress on Concrete, is intended to bring together the efforts in development by researchers in our community and to disseminate new numerical techniques for analysis and design, leading to a better understanding of the modern concrete structures and materials. The organizers hope the Symposium will contribute to the identification of reliable research results favoring a robust and qualified structural concrete analysis and design, providing safety assessment against failure and contributions for codes of practice or recommendations.

2 – TOPICS

The topics to be covered are related to computational mechanics of concrete and other cementitious materials, including:

1. Novel Numerical methodology and techniques
2. Constitutive Modeling
3. Coupling Effects (mechanical, hygral, hydraulic, thermic and chemical)
4. Fracture Mechanics
5. Multi-physics and Multi-Scale Models
6. Reliability Assessment of Concrete Structures
7. Structural Health Monitoring
8. Retrofit and Reinforcement Systems (CFRP, High Performance Concretes)
9. Fiber Reinforced Concrete Composites
10. Life Cycle Assessment of Concrete Structures
11. Performance under fire loading
12. Concrete at Early Age

3 – IMPORTANT DATES

Abstracts submission	20/03/2015
Abstracts approval	31/03/2015
Papers submission	04/05/2015
Papers approval	15/06/2015
Papers review submission	30/06/2015
Final papers approval	29/07/2015
Event	27 a 30/10/2015

4 – KEYNOTES SPEAKERS

Gianluca Cusatis (Northwestern University)

John Bolander (University of California - Davis)

Javier Oliver (CIMNE-Technical University of Catalonia - Barcelona)

Alfred Strauss (University of Natural Resources and Life Sciences - Vienna, Austria)

5 – PROGRAM

To be announced

6 – ORGANIZATION

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Oswaldo Luís Manzoli - *FEB-UNESP (Brazil)*

Luiz Fernando Campos Ramos Martha - *PUC-Rio (Brazil)*

José Luiz Antunes de Oliveira e Sousa - *FEC-UNICAMP (Brazil)*

Guillermo Etse - *CONICET (Argentina)*

Alfredo Huespe - *CIMEC - UNL/CONICET (Argentina)*

SCIENTIFIC COMMITTEE

Oswaldo Luís Manzoli - *FEB-UNESP (Brazil)*

Luiz Fernando Campos Ramos Martha - *PUC-Rio (Brazil)*

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André Maués Brabo Pereira - *UFF (Brazil)*

Antonio Carlos de Oliveira Miranda - *UnB (Brazil)*

7 – Institutional IBRACON

IBRACON, the Brazilian Concrete Institute is an international techno-scientific organization for the defense and appreciation of engineering. IBRACON aims to provide more knowledge in the field of concrete through courses, events, publications, certification, technological and scientific meetings, incentives for research and scientific and technological research and its dissemination to all the professionals and actors in the concrete industry and construction in the areas of materials technology, design, management, control, architecture, structures and buildings.

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