

Simpósio sobre Modelagem e Aplicações de Estruturas de Concreto Reforçado com Fibras

Symposium on Modeling and Applications of Fiber-Reinforced Concrete

(together with the 59th Brazilian Congress on Concrete)

Bento Gonçalves, RS – Brazil
October 31-November 3, 2017

Organized by:

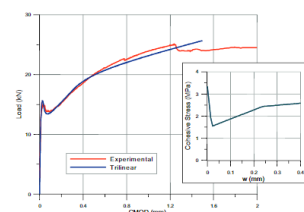
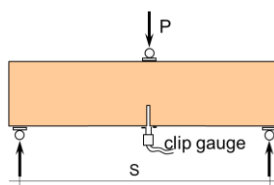
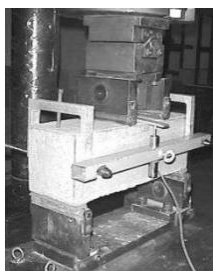
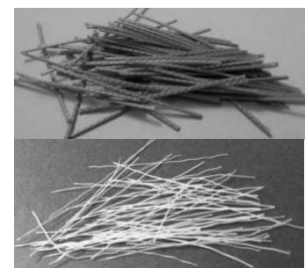


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CT 303

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1 – INTRODUCTION

The addition of fibers in concrete structures by constructors and design engineers has significantly increased in the recent years, motivated by the increase in the material energy absorption capacity and toughness. The complexity of fiber-reinforced concrete behavior demands appropriate characterization of the material properties and suitable modeling to guarantee a reliable prediction of the structural response. These aspects have been subject of research in many Institutions around the world. The proposed Symposium, to be held in Bento Gonçalves, RS, together with the 59th Brazilian Congress on Concrete, is intended to bring the recent developments achieved by researchers in our community and also to disseminate new approaches for analysis and design. The Symposium is aimed to provide a better understanding of the modern fiber reinforced concrete structures and materials. The organizers hope the Symposium could contribute to the identification of reliable research results that are intended to a better and qualified structural concrete analysis and design, which could lead to safety assessment and contributions for codes of practice and design recommendations. The Symposium encompasses a RILEM Short Course on Recent developments in Fiber Reinforced Concrete (October 31st), Plenary Lectures, and a Technical Session with selected articles and posters.

2 – TOPICS

The topics to be covered are related to mechanics of fiber reinforced concrete (FRC) and other composite materials, including but not limited to:

1. Constitutive modeling of FRC
2. Physical properties of FRC
3. Time dependent effects in FRC
4. FRC under fire conditions
5. Advanced fiber reinforced composite materials
6. Design of FRC structures
7. Durability of FRC
8. Applications
9. Normalization

3 – IMPORTANT DATES

Abstracts submission	10/04/2017
Abstracts approval	20/04/2017
Papers submission	14/05/2017
Papers approval	14/06/2017
Papers review submission	12/07/2017
Final papers approval	01/09/2017
Event	31/10 to 03/11/2017

SAIBA MAIS

4 – KEYNOTES SPEAKERS

Marco di Prisco (Politecnico di Milano, Italy)

* Barzin Mobasher (Arizona State University, United States)

*to be confirmed

5 – PROGRAM

31/10/2017

RILEM Short course about FRC design and specifications according to MC-2010

Marco di Prisco (Politecnico di Milano, Italy)	4 hours
Barzin Mobasher (Arizona State University, United States)	4 hours

01/11/2017

Lectures

Marco Antonio Carnio	CT 303 – Comitê IBRACON/ABECE Uso de Materiais não convencionais para Estruturas de Concreto, Fibras e Concreto Reforçado com Fibras	25 minutes
Raul Zerbino	Recent advances on fiber reinforced concrete	25 minutes

From 31/11/2017 to 03/11/2017

Oral presentations

Sessions of 15 minutes for oral presentation of papers related to FRC.

Poster presentations

6 – ORGANIZATION

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Uziel C M Quinino (UNISINOS)

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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