# III Simpósio de Infraestrutura Metroviária, Ferroviária e Rodoviária 3<sup>rd</sup> Symposium on Subway, Railway and Highway Infrastructure (together with 55<sup>th</sup> Brazilian Congress on Concrete)

Gramado – Rio Grande do Sul – Brazil October 29 – November 1, 2013

# Organized by:













#### 1 – INTRODUCTION

Due to the increase of demand for the improvement and the expansion of the transportation infrastructure in Brazil (subway, railway and highway), the 3<sup>rd</sup> Symposium on Subway, Railway and Highway Infrastructure will take place in the city Gramado in conjunction the 55<sup>th</sup> Brazilian Congress on Concrete, organized by the IABMAS Brazilian Group (International Association for Bridge Maintenance and Safety) and the Brazilian Concrete Institute - IBRACON.

IBRACON is promoting the 3<sup>rd</sup> Symposium on Subway, Railway and Highway Infrastructure in order to discuss and deliver to the technical world the improvements and progresses that have been made in Brazil and in the rest of world in this particular area. There is a strong motivation for large investments in infrastructure in consequence of the sportive events that will take place in the country in 2014 and 2016, and also due the observed economic growth of the last years. The actual investment in infrastructure is almost 4% of GDP, with a tendency to grow in the future.

With this Symposium, IBRACON is trying to disseminate new design techniques, analyses and construction methods leading to safer and modern structures and to improvements in the existing infrastructure.

We acknowledge and appreciate the support of the Organizing Committee and the Technical Scientific Committee of 55<sup>th</sup> Brazilian Congress on Concrete.

Túlio Nogueira Bittencourt

## 2 - TOPICS

The topics to be covered are:

- 1. Bridges
- 2. Stations
- 3. Tunnels
- 4. Structural Life Cycle
- 5. Safety and Serviceability.
- 6. Structural Health Monitoring
- 7. Weigh in Motion Systems.
- 8. Retrofit and Reinforcement Systems (CFRP, High Performance Concretes)
- 9. Monorail Structural Systems

# 3 - IMPORTANT DATES

Abstracts	03/April/2013
Abstracts Approval	19/April/2013
Papers	07/June/2013
Papers Approval	28/June/2013
Papers Revision Submission	22/July/2013
Papers Final Approval	12/August/2013
Event	29/10 a 01/11/2013

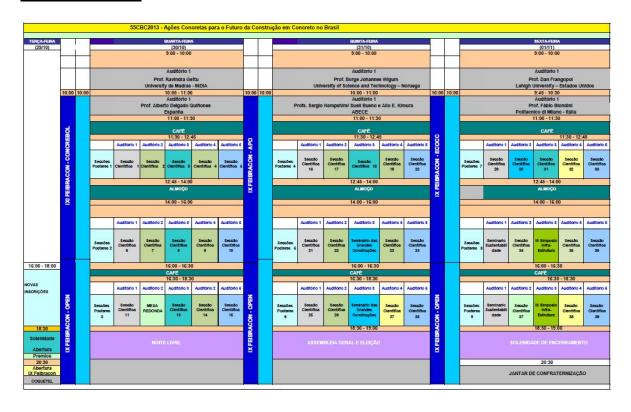
# 4 - KEYNOTES SPEAKERS

Prof. Dan Frangopol – Lehigh University – Estados Unidos

Prof. Fábio Biondini - Politecnico di Milano - Itália

Prof. Rui Oyamada – Outec Engenharia - Brasil

## 5 - PROGRAM



#### **6 – ORGANIZATION**

#### **ORGANIZED COMMITTEE**

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Rui Oyamada Sérgio Hampshire C. Santos

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Wayne Assis

## 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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