Dear Colleagues,

The Organizing Committee of the Concrete and Durability of Concrete Symposium, cordially invites you to submit abstracts for this scientific meeting. The Symposium will be held during the XII International Materials Research Congress, August 11-15.

The congress will be hosted at the JW Marriott Cancun Resort & Spa in Cancun, Mexico.

This Symposium is aimed to get together experimentalists, theoreticians and technicians interested to disseminate latest research results as produced by several groups worldwide on Concrete and Concrete Durability.

4B. CONCRETE AND DURABILITY OF CONCRETE STRUCTURES

At the present time, no material is known that is completely inert to chemical or biochemical action and immune to weathering damage. Concrete is no exception, but under what might be considered normal exposure conditions, it has a very long life. Concrete made by the Romans from natural cement is in excellent condition after more than 2000 years of service. Now days concrete is the most important structural material in human history and "man consumes no material except water in such tremendous quantities". Concrete was once regarded as a durable material with no need of maintenance. However, it is now generally accepted that structural concrete does not have an indefinite life, i.e., it deteriorates with time. In developed countries, approximately 50% of the expenditure in the construction industry is spent on repair, maintenance and remediation of infrastructures. In some developing countries like China and India, there is an exponential growth in infrastructure and these newly-built structures such as bridges and dams requires more than 100 years service life. Therefore, the importance of the durability of infrastructure cannot be over-emphasized.

Symposium topics to be addressed include (but are not limited to):

- Influence of environments on durability
- Ionic/molecular transport and modeling
- Materials for durability enhancement
- Material deterioration mechanism
- Performance of deteriorated structures
- Concrete biodeterioration
- Durability design
- Life-cycle management of concrete structures
- Testing, inspection and monitoring methods
- Repair and maintenance
- Novel cementitious materials
- New compositions

Invited Speakers (not yet confirmed):

Dr. R. D. Hoitiohn, Department of Civil Engineering, (University of Toronto)
Dr. D. J. Roberts, School of Engineering (University of British Columbia)

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