

Submissions

Submit abstracts and papers at:

<http://www.mrs-mexico.org.mx/imrc2012/abstract.php>

Registration

Register at the website:

<http://www.mrs-mexico.org.mx/imrc2012/registration.php>

Accommodation

Accommodation information at website:

<http://www.mrs-mexico.org.mx/imrc2012/hotel.php>

General information

Provisional general information at website:

<http://www.mrs-mexico.org.mx/imrc2012/general.php>

Visa issues

<http://www.mrs-mexico.org.mx/imrc2012/visa.php>

Contact the symposium organizers

- Luis Emilio Rendon Díaz Mirón – Mexican Institute of Water Technology, lerendon@tlaloc.imta.mx
- Bernardo Martínez Sánchez, CEMEX - CTCC – Mexico, bernardo.martinezs@cemex.com
- Konstantin Kovler, Technion – Israel Institute of Technology, cvrkost@technion.ac.il
- Nele De Belie, Universiteit Gent, Belgium, nele.debelie@ugent.be

Invited speakers include:

- Ole Mejlhede Jensen, Technical University of Denmark
- Pedro Castro Borges, CINVESTAV-IPN, Unidad Mérida
- Alejandro Duran-Herrera, Universidad Autónoma de Nuevo León



www.mrs-mexico.org.mx/imrc2012/

Symposium on:

CONCRETE WITH SMART ADDITIVES AND
SUPPLEMENTARY CEMENTITIOUS MATERIALS

12 August, 2012 - Cancun, Mexico

www.mrs-mexico.org.mx/imrc2012/symposium.php?id_simp=22

Sponsored by:

RILEM - International Union
of Laboratories and Experts in
Construction Materials, Systems
and Structures



Organized by:



The Symposium on CONCRETE WITH SMART ADDITIVES AND SUPPLEMENTARY CEMENTITIOUS MATERIALS will be organized in conjunction with the XXI INTERNATIONAL MATERIALS RESEARCH CONGRESS (IMRC-2012) under the scientific sponsorship of The International Union of Testing and Research Laboratories for Materials and Structures (RILEM).

Scope and focus

Supplementary cementitious materials (SCM) and different smart additives are commonly used in concrete practice nowadays. They are introduced into the concrete either blended with the cement or as separate additions. Some have been used in practice for decades others have just recently appeared in the development lab. SCMs with pozzolanic or cementitious properties include silica fume and nano-silica, coal fly ash, ground granulated blast furnace slag, metakaolin, limestone fillers and natural pozzolans. Smart additives include plasticizing, retarding, accelerating, shrinkage-reducing, air- and water-entraining admixtures, and more recently also embedded micro-devices for structural monitoring, phase-changing materials, and additives for self-healing and self-curing of concrete. A significant improvement in concrete quality – not the least durability and sustainability – can be obtained by proper use of these materials.

Session topics include (but not limited to):

- Smart additives for concrete, including additives for self-curing, self-sealing and self-healing
- Supplementary cementitious materials for concrete
- Hydration and microstructure in cementitious systems with smart additives and SCM
- Rheology of fresh concrete containing smart additives and SCM
- Mechanical properties of concrete with smart additives and SCM
- Nano-technology in concrete construction
- Durability, sustainability and recycling of concrete

Tutorial

The Symposium will be preceded by one-day tutorial via the RILEM Educational Activities Committee (EAC). The participation of graduate students, young engineers and researchers dealing with the Symposium topics is welcome.

Abstracts and Papers

Authors are invited to submit abstracts in English of maximum 200 words for review by the scientific committee not later than April 22, 2012. Each abstract should contain the name and full address of the author to be contacted concerning the paper. Abstracts will be reviewed according to the relevance to the themes and objectives of the workshop, originality of the subject matter, likely academic rigor of the proposed paper and likely contribution to knowledge or practical relevance, of the proposed paper.

