7th International DUT-Workshop on Design and Performance of Sustainable and Durable Concrete Pavements

10 - 11 October, 2010 near Seville, Spain

Call for Abstracts

Secretariat:
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Invitation
The preceding prestigious Workshops were held in 1986 (Epen, the Netherlands), 1990 (Sigüenza, Spain), 1994 (Krumbach, Austria), 1998 (Buçaco, Portugal), 2004 (Istanbul, Turkey) and 2006 (Old-Turnhout, Belgium).

The 7th International DUT-Workshop on Design and Performance of Sustainable and Durable Concrete Pavements will be held on 10 – 11 October, 2010 near Seville, Spain. This Workshop is complementary to the 11th International Symposium on Concrete Roads to be held from 13 – 15 October, 2010 in Seville.

Submission of a paper is a prerequisite for attending the Workshop. You are invited to write and present a paper dealing with one of the themes of the Workshop.

Workshop
During the Workshop authors will present their paper. Ample time will be available for discussion and open exchange of theoretical ideas. There will be plenty of opportunities for informal contacts in a stylish surrounding.

The Workshop’s language is English.

Preprints of the selected papers will be made available to the participants prior to the Workshop. All papers (together with the statements, discussions, conclusions and recommendations) will be published on CD-ROM after the Workshop.

A summary of the Workshop will be presented at the 11th International Symposium on Concrete Roads, to be held in Seville, 13-15 October 2010.

Time schedule
March 1, 2010: deadline for submission of abstracts
March 15, 2010: invitation to write paper based on accepted abstract
May 15, 2010: deadline for submission of draft paper
June 15, 2010: reviewers’ comments to author
July 15, 2010: deadline for submission of final paper
October 10-11, 2010: 7th International Workshop near Seville
October 13-15, 2010: 11th International Symposium in Seville

Organisation
The Workshop is organised by Delft University of Technology (DUT) in cooperation with CROW Technology Centre, Netherlands Cement Industry ENCI B.V., FEBELCEM, European Concrete Paving Association and International Society for Concrete Pavements. A Scientific Committee will select the papers, based on the received abstracts. The Scientific Committee has the right to refuse papers from being published or presented.

Scientific Committee:
Prof.dr.ir. A.A.A. Molenaar (chairman) Delft University of Technology (Netherlands)
Ir. L.J.M. Houben Delft University of Technology (Netherlands)
Dr.ir. J.W. Frénay Netherlands Cement Industry ENCI B.V. (Netherlands)
Ir. A.J. van Leest CROW Technology Centre (Netherlands)
Prof.dr. J.T. Balbo University of São Paulo (Brasil)
Prof.dr.ir. K. van Breugel Delft University of Technology (Netherlands)
M.I. Darter, PhD, PE ARA, Inc. – Transportation Sector (USA)
C. Jofré Federación Interamericano del Cemento (FICEM) (Spain)
L. Khazanovich, PhD University of Minnesota (USA)
Who should participate?
The Workshop is of special interest to experts and researchers in the field of design and performance of sustainable and durable concrete pavements for roads, bridges, airports, industrial yards and railways. In order to ensure a maximum amount of time for discussion, the number of participants will be limited to 40.

Main themes of the Workshop
The programme of the Workshop consists of four main themes, each dealing with several topics. Topics are more or less indicative and should stimulate the participants to write on similar or related issues.

I. Materials
- Prediction of behaviour of young concrete, based on concrete's maturity (regarding time of saw cutting, curing period, opening for heavy traffic etc.).
- Mechanical characterisation of concrete.
- Innovative concrete pavement mixes, such as traffic noise-reducing concrete, fibre-reinforced concrete (synthetic or steel fibres), (very) high-strength concrete, concrete containing recycled concrete aggregate, self-compacting concrete and self-healing concrete.
- Sustainable and durable concrete.

II. Design of concrete pavements
- Multilayer, plate and finite element modelling; integration of models.
- Effects of thermal and moisture gradients on internal stresses and strains.
- Cracking models for reinforced concrete pavements.
- Concrete pavements under dynamic loadings.
- Probabilistic design or risk analysis.
- Design and evaluation of concrete pavements.
- Load transfer.

III. Concrete pavement performance
- Performance modelling (visual condition surveys, cracking, curling, roughness etc.).
- Test pavements (Accelerated Pavement Testing, test sections on in-service pavements).

IV. Innovative concrete pavement structures
- Thin concrete inlays or overlays, ultra-thin white topping.
- Continuously reinforced concrete pavement details (reinforcement, joints, end parts etc.).
- Prevention of reflection cracking from cement-bound base courses.
- Hybrid pavement structures.
- Concrete pavements on orthotropic steel deck bridges.
- Silent concrete pavements.
- Precast (modular) concrete pavements.
- Ballastless railway tracks (slabtrack).
Abstracts
If you intend to participate in the Workshop, please submit a short abstract (maximum 200 words) to the Secretariat. The abstract should include the title and the affiliation of the author(s). Deadline for submission of the abstract: March 1, 2010.