First Announcement—Call for Papers

INTERNATIONAL CONFERENCE ON LONG-LIFE CONCRETE PAVEMENTS—2012

September 18–21, 2012 - Seattle, Washington

ORGANIZED BY

Federal Highway Administration
National Concrete Pavement Technology Center

CO-SPONSORED BY

American Association of State Highway and Transportation Officials
American Concrete Pavement Association
Concrete Reinforcing Steel Institute
International Society for Concrete Pavements
Portland Cement Association
Transportation Research Board
Washington State Department of Transportation
University of Washington
BACKGROUND

It is an established practice in the United States to require that concrete pavements provide low-maintenance service lives of 40 or more years. Long-life concrete pavements have been attainable for a long time as evidenced by the fact that a large mileage of very old pavements remains in service. In addition, continuing advances in design, construction, and concrete materials technology give us the knowledge and technology needed to achieve consistently what we already know to be attainable. Many State highway agencies in the United States, in conjunction with industry, are implementing innovative features related to structural design, concrete mixtures, construction equipment, construction process management, and testing procedures to achieve long-life concrete pavements that are economical and sustainable. To achieve long life, pavements must not exhibit premature failures and must have a reduced potential for cracking, faulting, spalling, and materials-related distress. To be sustainable, concrete pavement design and construction practices must continue to reduce the carbon footprint due to initial construction and due to future maintenance, repair, and rehabilitation activities. Finally, the life cycle impact of concrete pavements, considering life cycle costs and environmental and societal impacts, must be better than other pavement systems.

In 2006, the Federal Highway Administration (FHWA), as part of the Concrete Pavement Technology Program, organized a conference on Long-Life Concrete Pavements, held in Chicago, Illinois. The Chicago conference was very well attended and resulted in a very rigorous discussion of the practices and directions for long-life concrete pavements in North America and other parts of the world. In 2010, FHWA, as part of the Advanced Concrete Pavement Technology Program, organized the International Conference on Sustainable Concrete Pavements, held in Sacramento, California. This conference was also very well attended and provided a forum for a comprehensive discussion on sustainable concrete pavement practices. The 2012 Seattle conference is a followup to the 2006 Chicago conference and the 2010 Sacramento conference. The 2½-day Seattle conference is being organized as a part of technology transfer activities under the Advanced Concrete Pavement Technology Program that operates within FHWA. As with the Chicago and the Sacramento conferences, the Seattle conference will provide an international forum to address various aspects of concrete pavement design, construction, and materials technologies that result in long life for concrete pavements and are sustainable.

SCOPE

The Long-Life Concrete Pavements Conference is targeted at pavement, materials, and geotechnical engineering professionals who are involved in various aspects of concrete pavement design, construction, testing and evaluation, and rehabilitation. These professionals include Federal, State, and municipal engineers; consulting engineers; contractors; materials suppliers; and academia. Implementable design, construction, maintenance, and rehabilitation techniques that result in long-lasting concrete pavements will be the focus of the conference. In addition, a mini-symposium focusing on paving concrete durability will be held on the last day of the conference. This is in recognition of the fact that concrete durability under site-specific exposure conditions is a primary requirement for achieving long-life concrete pavements.

CONFERENCE TOPICS

Papers and conference presentations are solicited both nationally and internationally on a wide range of topics dealing with technologies that result in long-life concrete pavements, including pavement analysis, design, and construction; concrete materials; pavement performance; pavement repair and rehabilitation; user expectations; life cycle cost analysis; and sustainability considerations. Papers on international experiences and practices are especially welcomed. Papers and presentations dealing with
emerging topics related to long-life concrete pavements are also encouraged. Specifically, papers are solicited on the following topics:

1. U.S. and international experience on long-life concrete pavements.
2. U.S. and international experience on sustainability considerations for long-life concrete pavements.
3. Use of advanced construction materials.
4. Paving concrete durability (for the mini-symposium on concrete durability).
5. Best construction practices to achieve long-life concrete pavements.
6. Optimization of concrete pavement design features.
8. Lessons learned from early failures of concrete pavements.
9. Surface characteristics requirements for long-life concrete pavements.
10. Effective maintenance, repairs, and rehabilitation to extend service life.
12. Life cycle cost considerations for long-life pavements.

TECHNICAL PROGRAM

The conference program will consist of about 40 peer-reviewed presentations on best practices related to long-life concrete pavements. Implementable design, concrete materials, construction, and rehabilitation techniques that result in long-lasting concrete pavements are the focus of this conference. The technical program will include two forums of invited presentations from U.S. highway agencies and a mini-symposium on paving concrete durability.

The technical program will also include a Poster Program targeted at research in progress. Details related to participation in the Poster Program will be provided at a later date.

The tentative technical program is detailed below.

**TENTATIVE TECHNICAL PROGRAM—Long-Life Concrete Pavement (LLCP) Conference**

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<tr>
<td>Plenary/International</td>
<td>LLCP Design</td>
<td>LLCP Maintenance, Repair,</td>
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<tr>
<td>International LLCP Practices</td>
<td>LLCP Materials</td>
<td>and Rehabilitation</td>
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<td>Paving Concrete Durability</td>
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<td>U.S. LLCP Practices</td>
<td>LLCP Construction</td>
<td>Paving Concrete Durability</td>
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<td>Symposium (Part 2)</td>
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<td>Conference Reception</td>
<td>Conference Dinner</td>
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PAPER SUBMISSION AND PEER REVIEW

Paper acceptance for the technical sessions will be on the basis of peer review of manuscripts. The presentation and manuscript must not be of a commercial nature, and must not have been previously published. Papers will be limited to the lesser of 7,500 words or 25 pages. Each table and figure will count as 250 words. The paper review copies should be submitted as a PDF file or as a WORD document, either format not to exceed 10 MB in size. The papers will be prepared using Times Roman 12 pt font, and the text will be single-spaced. The final paper copy will be submitted as a WORD document not to exceed 20 MB in size. The papers should include both U.S. conventional and SI units, the primary unit being the author’s preference.

Each selected paper will be peer reviewed by members of the Technical Program Subcommittee of the Conference Steering Committee. Final selection will be made after the completed papers have been reviewed. All papers selected for presentation at the conference will be distributed to conference attendees on a CD.

PAPER/ABSTRACT/PRESENTATION SUBMISSION DUE DATES

<table>
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<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>October 1, 2011</td>
<td>Abstracts due (one page)</td>
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<tr>
<td>December 1, 2011</td>
<td>Authors notified of abstract acceptance</td>
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<tr>
<td>January 5, 2012</td>
<td>Accepted authors confirm participation</td>
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<tr>
<td>March 1, 2012</td>
<td>Completed papers due for review (MS WORD or PDF)</td>
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<tr>
<td>May 1, 2012</td>
<td>Reviews completed, authors notified of final disposition of their papers</td>
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<tr>
<td>July 1, 2012</td>
<td>Electronic versions of final papers due (MS WORD)</td>
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<tr>
<td>September 1, 2012</td>
<td>Electronic version of presentations due (MS POWERPOINT)</td>
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All first authors will need to register by May 31, 2012, for their papers to be included in the final program. In addition, author’s presentations (MS PowerPoint) must be received by September 1, 2012, for the presentation to be included in the final program, without any exceptions. No presentation substitutions or modifications will be permitted on site.

REGISTRATION DETAILS (all fees are in U.S. dollars)

<table>
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<tr>
<th>Registration</th>
<th>Early (by May 31, 2012)</th>
<th>Late (by July 31, 2012)</th>
<th>Very Late (after July 31, 2012)</th>
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<tr>
<td>General registration</td>
<td>375</td>
<td>425</td>
<td>525</td>
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<td>Government agencies (U.S. only) and full-time students</td>
<td>275</td>
<td>325</td>
<td>425</td>
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<tr>
<td>Authors and academia</td>
<td>325</td>
<td>375</td>
<td>475</td>
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<tr>
<td>Spouses</td>
<td>125</td>
<td>175</td>
<td>225</td>
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<tr>
<td>Exhibitors (includes one free registration)</td>
<td>1,500</td>
<td>2,000</td>
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Potential exhibitors should contact Shiraz Tayabji at stayabji@aol.com or by phone at 410-997-9020 to reserve space.
CONFERENCE VENUE/HOTEL

The conference will be held at the Sheraton Seattle Hotel in Seattle, Washington. The conference room rate is US $139.00 for traditional rooms and $159.00 for deluxe rooms, plus applicable taxes. The group reservation code for the discounted hotel room rate is “Concrete Conference.” Additional hotel-related details and other local area information will be provided in the next release of this announcement.

CONFERENCE STEERING COMMITTEE

Co-Chairs: Shiraz Tayabji, Fugro Consultants, and Tom Cackler, National Concrete Pavement Technology Center
Members:
Gina Ahlstrom, Federal Highway Administration
Neeraj Buch, Michigan State University
Dulce Rufino Feldman, California Department of Transportation
Jim Powell, American Concrete Pavement Association, Northwest Chapter (Local Support)
Kurt Smith, Applied Pavement Technology, Inc.
Peter Taylor, Center for Transportation Research and Education
Brett Trautman, Missouri Department of Transportation
Sam Tyson, Federal Highway Administration
Jeff Uhlmeyer, Washington State Department of Transportation (Host Agency)
Leif Wathne, American Concrete Pavement Association

TECHNICAL PROGRAM COMMITTEE

Chair: Shiraz Tayabji
Members: Neeraj Buch, Dulce Rufino Feldman, Kurt Smith, Peter Taylor, and Sam Tyson

SUBMIT PAPER ABSTRACTS TO:
Shiraz Tayabji
Phone: 410-997-9020; Fax: 410-997-9028; Email: stayabji@aol.com
Fugro Consultants, Inc.
10025 Governor Warfield Parkway, Ste. 212
Columbia, Maryland 21044

FOR ADDITIONAL INFORMATION, AND INFORMATION ON THE EXHIBITOR PROGRAM, CONTACT:
Shiraz Tayabji, Fugro Consultants, Inc.
Phone: 410-997-9020; Fax: 410-997-9028; Email: stayabji@aol.com

Updated information related to the conference and online registration will be available at http://www.fhwa.dot.gov/pavement/concrete/2012conf.cfm.