

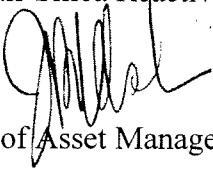


U.S. Department
of Transportation
**Federal Highway
Administration**

Memorandum

Subject: **ACTION:** Alkali-Silica Reactivity
Workshops

Date: JUL 20 2012

From: Butch Wlaschin 
Director, Office of Asset Management

In Reply Refer To:
HIPT-10

To: Federal Lands Highway Division Engineer
Director of Technical Services
Division Administrators

The Alkali-Silica Reactivity (ASR) Development and Deployment Program was initiated in 2006 to address the prevention and mitigation of ASR in new and existing concrete pavements, bridges, and other concrete highway structures.

As the program nears completion a workshop has been developed to accomplish the following objectives:

- Presentation of the overview of alkali-aggregate reaction (AAR) (both alkali-silica reaction (ASR) and alkali-carbonate reaction (ACR))
- Summarize the available methods to prevent and mitigate ASR-induced damage in new construction and existing structures
- Discuss and recommend test methods and specifications related to AAR
- Provide case studies of AAR-affected structures, including rehabilitation strategies

We have the resources to provide up to six face-to-face instructor-led workshops nationwide. In addition, a limited number of Webinars will also be available.

Please see the attached workshop flyer for more information. If you are interested in hosting a workshop in your State or would like additional information please contact Gina Ahlstrom by email at gina.ahlstrom@dot.gov or at 202-366-4612.

You may access the ASR Development and Deployment Program Web site at:
<http://www.fhwa.dot.gov/pavement/concrete/asr.cfm>.

Attachment



U.S. Department of Transportation
Federal Highway Administration

FEDERAL HIGHWAY
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FHWA Alkali-Aggregate Reactivity (AAR) Workshops For Engineers and Practitioners



ASR-affected concrete wall (above)
and joint damage on an ASR-
affected pavement (below).

Workshops and webinars will be conducted in order to effectively transfer the deliverables developed throughout the Alkali-Silica Reactivity (ASR) Development and Deployment Program to State Department of Transportation (DOT) engineers and practitioners.

To schedule or attend a workshop, please contact your local FHWA Division or Gina Ahlstrom (Only six workshops will be conducted nationwide, followed by a limited number of webinars, which will be announced at a later date.)

Objectives:

- Review the fundamentals of **alkali-aggregate reaction** (e.g. alkali-silica reaction, ASR, versus alkali-carbonate reaction, ACR)
- Summarize available methods of **preventing or mitigating ASR-induced damage** in newly-constructed and existing concrete structures.
- Discuss and recommend **test methods and specifications** related to AAR.
- Provide **case studies** of AAR-affected concrete structures, including **rehabilitation strategies**.

Who Should Attend:

- Pavement Engineers
- Materials Engineers
- Practitioners

Materials Provided:

- Workshop Reference Guide
- Participant's Manual
- Other reference materials to assist in the identification of AAR in the field and determination of the proper course of action to confirm AAR, such as:
 - ◊ AASHTO PP 65-10 provisional specification
 - ◊ ASR Facts Book

I-Day Agenda
Session 1 - Introduction and Workshop Objectives
Session 2 - Fundamentals of Alkali-Aggregate Reaction
Session 3 - Symptoms of AAR
Session 4 - AAR Test Methods
Session 5 - Prevention of ASR
Session 6 - AAR Specifications
Session 7 - Diagnosis and Prognosis of AAR
Session 8 - Repair Methods



Lithium vacuum impregnation.