

# **2013 BARM Updates and Design Considerations**

## **Mid-Western States Regional In-Place Recycling Conference**

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Ontario, California**

# IC is a Beautiful Thing!



Courtesy of Bruce Christianson

# 2013 BARM Manual - Overview

- **17 Chapters.** Introduction, Recycling and Reclaiming in Pavements, Project Evaluations, Cold Planning, HIR, CIR, and FDR sections that includes Project Analysis, Mix Design, Construction, Specifications and Inspection on each.
- **Total Update/Revisions**

# Cold Planing- Cpt 4

- Cold Planing Construction
- Detail Project Analysis
- CP Equipment and Operations
- Preparation and Planning
- Main Pavement Milling
- Micro Milling



# Cold Planing- Cpt 5

- Cold Planing Specifications and Inspections
- Specification Limits
- Inspection and Acceptance



# **HIR Detailed Project Analysis**

## **– Cpt 6, 7, 8, 9**

- **Pavement Assessment**
- **Materials Properties Assessment**
- **Constructability Assessment**
- **Simplified HIR Mix Designs**
- **Comprehensive HIR Mix Designs**
- **HIR Construction**
- **Common Equipment for Surface Recycling, Remixing, and Repaving**
- **Specifications and Acceptance**

# COLD RECYCLING

## (CIR and CCPR) Chpts 10-14

- Assessments
- Three E's
- Structural Capacity
- Materials/Geometric
- Construction
- Mix Design
- Specifications and Acceptance



# FDR Reclaiming – Chpts 15-17

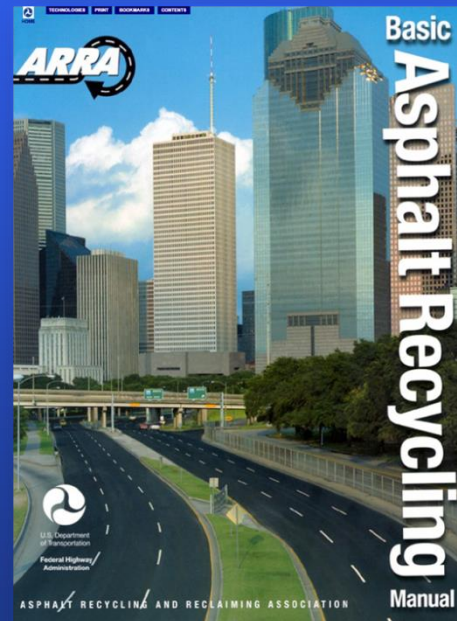
- Project Analysis
- Mix Design
- Construction
- Specifications and Acceptance





# 2013 BARM Manual

- Coming by the Fall meeting in Dallas
- Review Participants include
  - Don Mathews
  - Todd Thomas
  - Steve Cross
  - Friendly Fed
- 2014 Regional Conference??



2001

# Basis of Course

- *Basic Asphalt Recycling Manual (BARM)*
- **NCHRP**  
*Synthesis 421,  
Recycling and  
Reclamation of  
Asphalt  
Pavements*

**Thank you- The Friendly Fed**

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