

Illinois Asphalt Pavement Association Mix Design Competition

March 13, 2007

Andrew F. Braham
Jodie F. Green
Professor Bill G. Buttlar
Professor Sam H. Carpenter

Department of Civil and Environmental Engineering
University of Illinois at Urbana-Champaign



Summary

- Objectives
- Other state's experiences
- Participating universities
- National competition
- Illinois' rules



**Wisconsin Asphalt Pavement Association
Competition - 2000**

Objectives of Mix Design Competition

- **Increase interest, knowledge, and awareness of asphalt materials and designs to universities and their students across the state of Illinois**
- **Will achieve this through a mix design competition between universities in Illinois and surrounding area**

Other State's Experiences

- **Sent out survey to New York, Ohio, Wisconsin, and Iowa**
- **Received responses from New York, Ohio, and Wisconsin**
- **Complied**
 - **Objectives**
 - **Suggestions**
 - **Competition**
 - **Judging**

Participating Universities

➤ Interested universities

- Bradley University, Lake Land College, UIUC, Rose Hulman, Southern Illinois University, Purdue

➤ Verbal commitments for spring 2007's competition

- Bradley University
- University of Illinois at Urbana-Champaign
- Purdue

Illinois' Rules

- **Use IDOT specifications for mix design**
- **9.5mm NMAS surface mix**
- **Minimum PG64-22 grade**
- **Use any materials, RAP encouraged**
- **Judging breakdown:**
 - **APA torture test (25%) – thank you IDOT!**
 - **Written report (35%)**
 - **Cost analysis (10%)**
 - **Video presentation (30%)**
- **Five judges, \$1000 first place prize**



Thank you to:

- IAPA – Marvin Traylor and Tim Doctor
- IDOT – Jim Trepanier
- Roger Haydon and Chris Piche – students seminar coordinators
- IAPA members who make this possible!

