



# SEAUPG 2002 CONFERENCE


  
ASPHALT INSTITUTE

## Asphalt Institute Update

Dr. Peter Grass  
President  
Asphalt Institute  
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pgrass@asphaltinstitute.org

  
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## Enjoy Lexington...




2696 Research Park Drive

  
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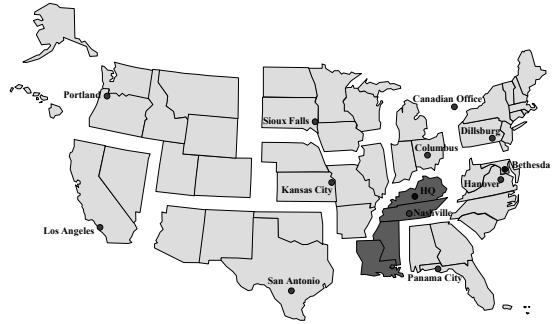
## New talent at AI...

- Linda Allin: Director Finance & Administration
- Mike Huner: Field Engineer, KY, TN, MS, LA
- Brian Clark: Director Marketing & Membership



  
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## Mike Huner's District



  
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## Asphalt Institute Seminars

- Mix Design Technology Certification Course, Lexington, KY
  - January 6 – 10, 2003
  - February 24 – 28, 2003
  - June 2 – 6, 2003
- Limited enrollment
- Hands-on lab work
- Optional certification exam

  
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## Asphalt Institute Seminars

- Airport Pavement Workshop
  - Kansas City, MO
  - April 14 – 17, 2003
  - Sponsored by FAA and AI
- FAA's P-401 Specification
- Not just for the designer
- Great benefit to contractors, consultants

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## Asphalt Institute Seminars

- Superpave Binder Course
  - Lexington, KY
  - January 28 – 31, 2003
  - March 3 – 6, 2003
- Asphalt Pavement Conference
  - Superpave 2003*
  - Part of World of Asphalt
  - Nashville, TN
  - March 17 – 19, 2003
  - [www.worldofasphalt.com](http://www.worldofasphalt.com)



## Asphalt Institute Seminars

- Superpave for local governments
  - Bay County, FL
  - Pennsylvania
- Real need
- Great fit for state LTAP programs



## 2002 APA Perpetual Pavement Award Winners

- Eareckson Air Station, AK, USAF
- I-80, Iowa DOT
- BWI, MdDOT
- I-35, MnDOT
- I-44, MoDOT
- I-40, OKDOT
- I-65, TnDOT



## Objective of Asphalt Institute Research

### Support Perpetual Pavement Methodology

- Validate Infinite Fatigue Life at Low Strain Levels
- Determine Strain Level at which Mixtures Will Not Develop Fatigue Damage
- Examine Any Difference With Asphalt Rich Fatigue Layer

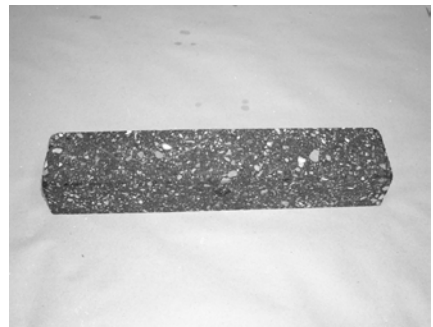


## Test Method Used

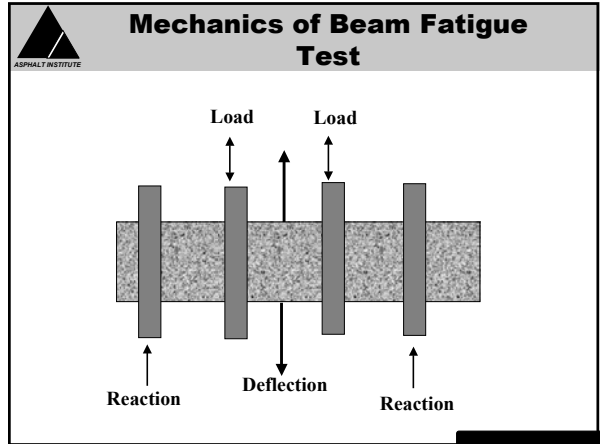
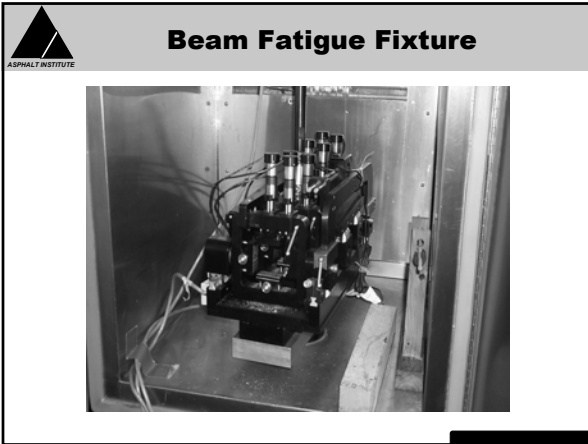
- *AASHTO TP8 Standard Test Method for Determining the Fatigue Life of Compacted Hot Mix Asphalt (HMA) Subjected to Repeated Flexure*
- Commonly known as “Beam Fatigue Test”



## Compacted Beam for Fatigue Testing



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**Matrix Completed to Date**

Mix	Air Voids	Strain Levels ( $\mu\epsilon$ )	AC Content	
			Optimum	Optimum+
19-mm Superpave	7% for Opt. AC%	800	X	X
		400	X	X
	< 7% for Opt+	200	X	X
		100	X	X
		70	X	X


Expected Completion 12/31/02

- Interim Data (cont.)**
- As Expected the Number of Cycles to Failure Significantly Increases at Low Strain Levels
  - This Data Would Appear to Validate the Concept of Infinite Fatigue Life at Low Strain Levels

- Expected Results**
- Validation of Infinite Fatigue Stain Level
  - Determine the Strain Level at Which Infinite Fatigue Life Can Be Expected
  - Investigation of the Asphalt Rich Bottom Layer Concept

- APA Activities**
- Fulfillment transition
    - NAPA to AI
    - Effective March 1, 2003
    - One-week "black-out" period prior
  - APA Web-site enhancements
    - New host
    - Subtle changes in design
    - Easier to use

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**Asphalt Pavements are**  
***ABSOLUTELY***  
**The Smart Choice**

**Quality...**



• FORD • FORD TRUCKS • **Ford** • LINCOLN • MERCURY •

QUALITY IS JOB 1.

**ASPHALT INSTITUTE MEMBER COMPANIES**



**ASPHALT INSTITUTE AFFILIATE MEMBERS**

