



The  
Asphalt  
Institute

## Airport Pavement Technical Workshop

### Asphalt Pavement Design, Construction and Maintenance (23 PDHs)

This workshop provides the most up-to-date information for those designing, constructing and managing asphalt airport pavements. Focus is on current FAA and other applicable industry standards, including specifications, advisory circulars, criteria and policy. Topics covered include pavement design and evaluation, materials, mix design, construction, preservation and rehabilitation practices, along with innovative pavement technologies for airports.

***Focuses on the FAARFIELD 2.0 airport pavement design software and AC 150/5320-6G, Airport Pavement Design and Evaluation. FAARFIELD 2.0 features a completely redesigned graphical user interface (GUI) with improved screen flow and explorer-based navigation along with a new 3D finite element computational library, a new graphical vehicle editor, updated aircraft library and many other refinements.***

***This workshop will also cover AC 150/5370-10H and emphasize the latest changes, especially those within and pertaining to item P-401.***

#### Highlighted Topics

- FAA Thickness Design
- Maintenance and Rehabilitation Methods
- Quality Control and Assurance
- Pavement Evaluation
- Materials and Construction
- P-401 Specifications, Marshall and Gyratory Mixes

#### Who Should Attend

The workshop is intended for airport managers and engineers, consultants, engineering personnel, testing laboratory personnel, construction inspectors, and others who have responsibility for airport pavement design, construction, maintenance and rehabilitation.

#### To Register

**\$1,695 per person | \$1,495 State Aviation Officials | \$1,295 for FAA personnel**

Lunches and breaks are provided each day.

For questions or additional information call **859.288.4960**.

Register online at [www.asphaltinstitute.org](http://www.asphaltinstitute.org)



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*The technical nature of the workshop was very helpful in learning about the topics covered and the presenters were helpful in answering many questions about actual project related or on-the-job circumstances.*

*Course was well organized, and speakers were knowledgeable and interesting.*

*The speakers were well prepared and covered a lot of material.*





## Day One

7:00 - 8:00 a.m.	Check-in and Registration	
8:00 a.m.	Welcome from FAA TBD TBD	
	National FAA/AI Pavement Technical Workshop Program Mark Buncher, Asphalt Institute	1-1
	Airport Pavement Terminology and Distress Identification John Duval, Duval Engineering LLC	1-2
	Overview of Regional Airport System & Pavement Issues Jeff Crislip, AAS-110, Federal Aviation Administration	1-3
	Overview - FAA Guidance: AAS-100, ACs, EBs, and Website Jeff Crislip, AAS-110, Federal Aviation Administration	1-4
10:00 - 10:15 a.m.	BREAK	

**Lessons, Times and  
Presenters are subject to  
change without notice!**

## Pavement Design and Evaluation

	Airport Pavement Evaluation & Design Concepts Navneet Garg, FAA Technical Center, Atlantic City, NJ	1-5
12:00 - 1:00 p.m.	LUNCH	
	Airport Pavement Thickness Design FAARFIELD Software Navneet Garg, FAA Technical Center, Atlantic City, NJ	1-6
	Class Exercise - FAARFIELD Pavement Design Navneet Garg, FAA Technical Center, Atlantic City, NJ	1-7

*Participants are encouraged to bring laptop  
computers to work on classroom examples  
in FAARFIELD during the workshop.*

*Please install the latest versions of  
FAARFIELD prior to the workshop.  
Software is available at:*

[http://www.faa.gov/airports/engineering/  
design\\_software/](http://www.faa.gov/airports/engineering/design_software/)

## Material Selection

	Aggregates in Airport Pavement Structures Grover Allen, Asphalt Institute	1-8
2:45 - 3:00 p.m.	BREAK	
	Asphalt Binders/Selection for Airport Projects Mark Buncher, Asphalt Institute	1-9
	HMA Mix Design for Airport Pavements--Part I John Duval, Duval Engineering LLC	2-1
4:30 - 5:00 p.m.	Day 1 Review/Q&A FAA, AI and other speakers	

## Day Two

### Mix Design Considerations

8:00 a.m.	HMA Mix Design for Airport Pavements--Part II John Duval, Duval Engineering LLC	2-1
	Example - Review of Contractor Mix Design Submittal Mark Buncher, Asphalt Institute	2-2
9:45 - 10:00 a.m.	BREAK	

### Construction

	Contractor Quality Control Program Jarrett Welch, Quality Paving Consultants	2-3
	Owner Acceptance Testing / PWL John Duval, Duval Engineering LLC	2-4



	Class Exercise - Pay Factor Analysis John Duval, Duval Engineering LLC	2-5
12:00 - 1:00 p.m.	LUNCH	
	Prime Coat, Milling and Patching Grover Allen, Asphalt Institute	2-6
	Tack Coat Grover Allen, Asphalt Institute	2-7
2:00 - 2:15 p.m.	BREAK	
	Paving Operations Jarrett Welch, Quality Pavement Consultants	2-8
	HMA Compaction Operations Grover Allen, Asphalt Institute	2-9
4:30 - 5:00 p.m.	Day 2 Review/Q&A FAA, AI and other speakers	

### Day Three

#### Construction (continued)

8:00 a.m.	Longitudinal Joint Best Practices Mark Buncher, Asphalt Institute	3-1
	Runway Surface Considerations Jeff Crislip, AAS-110, Federal Aviation Administration	3-2

9:15 - 9:30 a.m. BREAK

#### Pavement Management and Preservation

	Pavement Management Concepts Wayne Seiler, All About Pavements (API)	3-3
	Decoding FAA Surface Treatment Specifications John Duval, Duval Engineering LLC	3-4
	Fog Seal, Slurry Seal and Microsurfacing Treatments Eric Reimschuessel, American Pavement Preservation	3-5
	Gilsonite and Coal Tar Surface Treatments John Duval, Duval Engineering LLC	3-6
Noon - 1:00 p.m.	LUNCH	
	Crack Sealing of Airport HMA Pavements Brian Hatfield, Crafcro Inc	3-7

#### Pavement Rehabilitation

	Rehabilitation of Concrete Pavement with HMA Mark Buncher, Asphalt Institute	3-8
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#### Innovative Technologies

2:45 - 3:00 p.m.	BREAK	
	Void Reducing Membrane Interlayer for Longitudinal Joints Todd Thomas, Asphalt Materials Inc	3-9
	Fuel-Resistant Asphalt Mixes Ron Corun, Associated Asphalt Products	3-10
	Day 3 Review/Q&A FAA, AI and other speakers	
4:30 p.m.	Certificates and Adjourn	

## Professional Development Hours (PDH)

The workshop will earn attendees 23 Professional Development Hours (PDHs).

## Workshop Contacts

**John Duval, P.E.**  
**AI Consultant/Workshop Manager**  
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## Transfer, Cancellation and Refund Policy

You may cancel without penalty up to three weeks prior. If you provide the Asphalt Institute with less than three weeks notice, or fail to attend, you will be liable for the entire seminar fee. You may also send someone to take your place. We appreciate that this is an important investment for you and your company and would like to accommodate your needs the best we can. Therefore, please call us at 859.288.4960.

## Registration Fees and Materials

The registration fee is \$1,695 per person. The registration fee is \$1,495 for State Aviation Officials and \$1,295 for FAA personnel. Registration fees cover all workshop materials, breaks and lunches.

The following publications are included in the registration fee:

- |                           |  |
|---------------------------|--|
| • Asphalt Institute MS-2  | Mix Design Methods   |
| • Asphalt Institute MS-22 | Construction of Quality Asphalt Pavements                    |
| • FAA AC 150/5320-6G      | Airport Pavement Design and Evaluation                       |
| • FAA AC 150/5370-10H     | Standards for Specifying Construction of Airports            |
| • FAA AC 150/5370-13A     | Off-Peak Construction of HMA                                 |
| • FAA AC 150/5380-6C      | Guidelines & Procedures for Maintenance of Airport Pavements |
| • FAA AC 150/5380-7B      | Airport Pavement Management Program                          |
| • Course workbook         | Includes all presentations and handouts                      |
| • FAARFIELD               | FAA Airport Pavement Design Software                         |

**Register online:** [www.asphaltinstitute.org](http://www.asphaltinstitute.org)

**Mail your completed registration form to:** Asphalt Institute  
 2696 Research Park Drive  
 Lexington, KY 40511-8480

**Fax your completed registration form to:** 859.288.4999

**For additional information, call:** 859.288.4960

(Please use photocopies for additional registrations)

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(By providing your e-mail address you give the Asphalt Institute permission to e-mail you.)

Special Meal Requests: ☐ Gluten Free ☐ Vegetarian ☐ Other \_\_\_\_\_

### Method of Payment

Checks should be made payable to the Asphalt Institute.

- ☐ \$1,695 ☐ \$1,495 (State Aviation Officials) ☐ \$1,295 (FAA Personnel)  
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