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 recently released FAARFIELD 2.0 airport pavement design software and recently updated 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
$1,095 per person | $995 State Aviation Officials | $895 for FAA personnel
Breaks are provided each day.
For questions or additional information call 859.288.4960.
Register online at www.asphaltinstitute.org

"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."
Participants are encouraged to use 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/

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

Program     |     Now Online
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### Monday, November 1, 2021 - Day One

**Introduction and Background**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noon - 12:45 pm</td>
<td>Workshop Overview and Introductions</td>
<td>Mark Buncher, Asphalt Institute</td>
<td>1</td>
</tr>
<tr>
<td>12:45 pm - 1:15 pm</td>
<td>Overview of Regional Airport System &amp; Pavement Issues</td>
<td>Jeff Crislip, Federal Aviation Administration</td>
<td>2</td>
</tr>
<tr>
<td>1:15 pm - 1:30 pm</td>
<td>Q/A and Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30 pm - 2:00 pm</td>
<td>Airport Pavement Terminology and Distress Identification</td>
<td>John Duval, Duval Engineering LLC</td>
<td>3</td>
</tr>
<tr>
<td>2:00 pm - 2:30 pm</td>
<td>Overview and Update - FAA Guidance: AAS-100, ACs, EBs, and Website</td>
<td>Jeff Crislip, Federal Aviation Administration</td>
<td>4</td>
</tr>
<tr>
<td>2:30 pm - 2:45 pm</td>
<td>Q/A and Adjourn</td>
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</table>

### Tuesday, November 2, 2021 - Day Two

**Pavement Design and Evaluation**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noon - 1:00 pm</td>
<td>Airport Pavement Evaluation &amp; Design Concepts--Part 1</td>
<td>Jeff Gagnon, FAA Technical Center, Atlantic City, NJ</td>
<td>5</td>
</tr>
<tr>
<td>1:00 pm - 1:15 pm</td>
<td>Q/A and Break</td>
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</tr>
<tr>
<td>1:15 pm - 2:00 pm</td>
<td>Airport Pavement Evaluation &amp; Design Concepts--Part 2</td>
<td>Jeff Gagnon, FAA Technical Center, Atlantic City, NJ</td>
<td>6</td>
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<tr>
<td>2:00 pm - 2:15 pm</td>
<td>Q/A and Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:15 pm - 3:00 pm</td>
<td>Airport Pavement Thickness Design--FAARFIELD Software</td>
<td>Jeff Gagnon, FAA Technical Center, Atlantic City, NJ</td>
<td>7</td>
</tr>
<tr>
<td>3:00 pm - 3:15 pm</td>
<td>Q/A and Adjourn</td>
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### Wednesday, November 3, 2021 - Day Three

**FAARFIELD Software**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noon - 1:00 pm</td>
<td>Class Exercise 1 -- FAARFIELD Pavement Design</td>
<td>Jeff Gagnon, FAA Technical Center, Atlantic City, NJ</td>
<td>8</td>
</tr>
<tr>
<td>1:00 pm - 1:15 pm</td>
<td>Q/A and Break</td>
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<tr>
<td>1:15 pm - 2:00 pm</td>
<td>Class Exercise 2 -- FAARFIELD Pavement Design</td>
<td>Jeff Gagnon, FAA Technical Center, Atlantic City, NJ</td>
<td>9</td>
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<tr>
<td>2:00 pm - 2:15 pm</td>
<td>Q/A and Break</td>
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<tr>
<td>2:15 pm - 3:00 pm</td>
<td>ACR/PCR Concepts</td>
<td>Jeff Gagnon, FAA Technical Center, Atlantic City, NJ</td>
<td>10</td>
</tr>
<tr>
<td>3:00 pm - 3:15 pm</td>
<td>Q/A and Adjourn</td>
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*All times shown are Eastern Time*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
</table>
| Noon - 12:45 pm | Asphalt Binders/Selection for Airport Projects  
Mark Buncher, Asphalt Institute | 11                                                 |
| 12:45 pm - 1:00 pm | Q/A and Break  
Mark Buncher, Asphalt Institute | 11                                                 |
| 1:00 pm - 1:45 pm | Aggregates in Airport Pavement Structures  
Wayne Jones, Asphalt Institute | 12                                                 |
| 1:45 pm - 2:00 pm | Q/A and Break  
Wayne Jones, Asphalt Institute | 12                                                 |
| 2:00 pm - 3:15 pm | Mix Design for Airport Pavements  
John Duval, Duval Engineering LLC | 13                                                 |
| 3:15 pm - 3:30 pm | Q/A and Adjourn  
John Duval, Duval Engineering LLC | 13                                                 |

**Friday, November 5, 2021 - Day Five**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
</table>
| Noon - 12:45 pm | Exercise—Review of Contractor Mix Design Submittal  
Mark Buncher, Asphalt Institute | 14                                                 |
| 12:45 pm - 1:00 pm | Q/A and Break  
Mark Buncher, Asphalt Institute | 14                                                 |
| 1:00 pm - 1:45 pm | Contractor Quality Control Program  
Jarrett Welch, Quality Paving Consultants | 15                                                 |
| 1:45 pm - 2:00 pm | Q/A and Break  
Jarrett Welch, Quality Paving Consultants | 15                                                 |
| 2:00 pm - 2:45 pm | Owner Acceptance Testing / PWL  
John Duval, Duval Engineering LLC | 16                                                 |
| 2:45 pm - 3:00 pm | Q/A and Adjourn  
John Duval, Duval Engineering LLC | 16                                                 |

**Monday, November 8, 2021 - Day Six**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
</table>
| Noon - 12:30 pm | Exercise—Pay Factor Calculation  
John Duval, Duval Engineering LLC | 17                                                 |
| 12:30 pm – 12:45 pm | Q/A and Break  
John Duval, Duval Engineering LLC | 17                                                 |
| 12:45 pm – 1:15 pm | Prime Coat, Milling and Patching  
Wayne Jones, Asphalt Institute | 18                                                 |
| 1:15 pm – 1:45 pm | Tack Coat  
Wayne Jones, Asphalt Institute | 19                                                 |
| 1:45 pm – 2:00 pm | Q/A and Break  
Wayne Jones, Asphalt Institute | 19                                                 |
| 2:00 pm - 3:15 pm | Paving Operations  
Jarrett Welch, Quality Paving Consultants | 20                                                 |
| 3:15 pm – 3:30 pm | Q/A and Adjourn  
Jarrett Welch, Quality Paving Consultants | 20                                                 |

*All times shown are Eastern Time*
### Tuesday, November 9, 2021 - Day Seven

#### HMA Compaction/Longitudinal Joints

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institute/Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noon - 1:00 pm</td>
<td>HMA Compaction Operations</td>
<td>Wayne Jones, Asphalt Institute</td>
<td></td>
</tr>
<tr>
<td>1:00 pm - 1:15 pm</td>
<td>Q/A and Break</td>
<td></td>
<td></td>
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<tr>
<td>1:15 pm - 2:00 pm</td>
<td>Longitudinal Joint Best Practices</td>
<td>Mark Buncher, Asphalt Institute</td>
<td></td>
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<tr>
<td>2:00 pm - 2:15 pm</td>
<td>Q/A and Break</td>
<td></td>
<td></td>
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<tr>
<td>2:15 pm - 2:45 pm</td>
<td>Void Reducing Asphalt Membrane</td>
<td>Todd Thomas, The Heritage Group</td>
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<tr>
<td>2:45 pm - 3:15 pm</td>
<td>Runway Surface Considerations</td>
<td>Jeff Crispil, Federal Aviation Administration</td>
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<tr>
<td>3:15 pm - 3:30 pm</td>
<td>Q/A and Adjourn</td>
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### Wednesday, November 10, 2021 - Day Eight

#### Pavement Management and Preservation

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institute/Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noon - 1:00 pm</td>
<td>Pavement Management Concepts</td>
<td>Wayne Seiler, All About Pavements</td>
<td></td>
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<tr>
<td>1:00 pm - 1:15 pm</td>
<td>Q/A and Break</td>
<td></td>
<td></td>
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<tr>
<td>1:15 pm - 1:45 pm</td>
<td>Decoding FAA Surface Treatment Specifications</td>
<td>John Duval, Duval Engineering LLC</td>
<td></td>
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<tr>
<td>1:45 pm - 2:00 pm</td>
<td>Q/A and Break</td>
<td></td>
<td></td>
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<tr>
<td>2:00 pm - 2:45 pm</td>
<td>Fog Seal, Slurry Seal and Microsurfacing Treatments</td>
<td>Eric Reimnicius, American Pavement Preservation</td>
<td></td>
</tr>
<tr>
<td>2:45 pm - 3:15 pm</td>
<td>Gilsonite and Coal Tar Surface Treatments</td>
<td>John Duval, Duval Engineering LLC</td>
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<tr>
<td>3:15 pm - 3:30 pm</td>
<td>Q/A and Adjourn</td>
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### Thursday, November 11, 2021

*No Class--Veterans' Day Holiday*

### Friday, November 12, 2021 - Day Nine

#### Innovative Technologies

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institute/Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noon - 12:30 pm</td>
<td>Fuel-Resistant Asphalt Mixes</td>
<td>Wayne Jones, Asphalt Institute</td>
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</tr>
<tr>
<td>12:30 pm - 12:45 pm</td>
<td>Q/A and Break</td>
<td></td>
<td></td>
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<tr>
<td>12:45 pm - 1:30 pm</td>
<td>Crack Sealing of Airport HMA Pavements</td>
<td>Brian Hatfield, Crafco</td>
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<tr>
<td>1:30 pm - 1:45 pm</td>
<td>Q/A and Break</td>
<td></td>
<td></td>
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<tr>
<td>1:45 pm - 2:45 pm</td>
<td>Rehabilitation of Concrete Pavement with HMA</td>
<td>Mark Buncher, Asphalt Institute</td>
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<tr>
<td>2:45 pm - 3:00 pm</td>
<td>Q/A and Adjourn</td>
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</tbody>
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*All times shown are Eastern Time*
Registration Form

November 1-12, 2021

Professional Development Hours (PDH)

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

Workshop Contacts

John Duval, PE
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Mark Buncher, PhD, PE
Director of Engineering
Asphalt Institute
2696 Research Park Drive
Lexington, KY 40511
859.288.4972
mbuncher@asphaltinstitute.org

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 $1,095 per person. The registration fee is $995 for State Aviation Officials and $895 for FAA personnel. Registration fees cover all workshop materials, breaks and lunches.

The following materials are included in the registration fee:

- Asphalt Institute MS-2 Mix Design Methods
- Asphalt Institute MS-22 Construction of Hot Mix Asphalt
- 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
- FAARRFIELD FAA Airport Pavement Design Software

Register online: 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)

Name ___________________________________________________________
Title ______________________________________________________________
Organization _______________________________________________________
Address __________________________________________________________
City __________________________________________ State __________ Zip __________
Phone __________________________ Fax __________________________
Email _____________________________________________________________

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

Method of Payment

Checks should be made payable to the Asphalt Institute.

☐ $1,095  ☐ $995 (State Aviation Officials)  ☐ $895 (FAA Personnel)
☐ Check  ☐ MasterCard  ☐ Visa  ☐ American Express  ☐ Discover

Card Account Number _____________________________________________
Card Security Number ______________ (3 digits on back of card)  Exp. Date ___________
Name as it appears on the card ______________________________________
Cardholder’s Email _______________________________________________
Phone __________________________

Asphalt Institute Federal ID # 61-1148531