



The  
Asphalt  
Institute

## Airfield Paving Clinic

*focusing on P-401*

asphalt



ACADEMY



WIRTGEN  
GROUP



**NEW! 2 DAY CLINIC**

**May 14 - 15, 2019**

**Antioch, Nashville, TN**

## Airport Paving Clinic

***Focusing on P-401 (13.25 PDHs)***

This clinic provides focused and detailed guidance on constructing asphalt pavements for Federal Aviation Administration funded airfield pavement projects. Participants will take a deep-dive into the design and production of asphalt mixtures, focusing on the current FAA P-401 specification. Discussion topics will include material specifications, construction guidance, and quality control considerations to construct long-life asphalt pavements in the commercial and general aviation environment.

This clinic will be taught by experienced Asphalt Institute and consulting engineers with decades of airport pavement experience.

The clinic will be based on the just released AC 150/5370-10H. Focus will be placed on the key asphalt-related specification sections necessary for Contractors, Inspectors, Airport staff, Engineers, etc.

**Featuring a live demonstration by Wirtgen America on Day 2:  
Crushing, milling, paving and compaction utilizing newest equipment and technologies**

### **Learn about significant changes in the NEW version of FAA's P-401.**

AC 150/5370-10H brings significant changes to P-401 and other specs pertaining to asphalt paving. Some of these include:

- Adjusted aggregate gradation bands
- Minimum lift thickness guidance
- Tack coat as a separate pay item
- Contractor quality control : greater emphasis, new requirements and separate pay item
- New loaded wheel test requirement for both Marshall or gyratory mixes
- New guidance on PG grade selection
- Reference Density now theoretical maximum density

### ► **Highlighted Topics**

- Asphalt Binders - Performance Grade Selection and Grade Bumping for Airports
- Asphalt Mix Design and Volumetrics : P-401 Marshall/Gyratory
- Tack Coat : P-603 (separate pay item under 10H)
- Asphalt Laydown and Compaction to Achieve P-401 Density Requirements
- Longitudinal Joint Best Practices
- Contractor Quality Control Requirements (expanded under 10H)
- PWL and Acceptance Testing Requirements in P-401

### ► **Who Should Attend**

The clinic is intended for FAA, state aviation, and airport staff, contractors, inspectors, consulting engineers, testing laboratory personnel, and others who are involved in airport asphalt pavement construction.

### ► **Clinic Location**

#### **Wirtgen America Center for Training and Technology**

6040 Dana Way  
Antioch, TN 37013  
615.501.0600

(Close to Nashville, TN)

Holiday Inn Express & Suites  
Southeast Antioch  
201 Crossings Place  
Nashville, TN 37013  
615-731-2361

(Shuttle service to the facility)

## Clinic Schedule

The Asphalt Institute **Airfield Paving Clinic**  
focusing on P-401

**May 14 - 15, 2019 | Antioch, Nashville, TN**

### May 14, 2019 - Day One

|                 |  |      |
|-----------------|--|------|
| 7:00 - 8:00 am  | Check-in and Registration  |      |
|                 | Airport Paving Clinic Overview and Introductions<br><i>Mark Buncher, Asphalt Institute</i>         | 1-0  |
|                 | Welcome from FAA Southern Region<br><i>Anthony Cochran, FAA Southern Region, Airports Division</i> | 1-1  |
|                 | Aggregates in Airport Pavement Structures<br><i>Danny Gierhart, Asphalt Institute</i>              | 1-2  |
| 9:30 - 9:45 am  | BREAK  |      |
|                 | Asphalt Binders/Selection for Airport Projects<br><i>Mark Buncher, Asphalt Institute</i>           | 1-3  |
|                 | HMA Mix Design for Airport Pavements<br><i>John Duval, Duval Engineering LLC</i>                   | 1-4  |
| 12:00 - 1:00 pm | LUNCH  |      |
|                 | Example - Review of Contractor Mix Design Submittal<br><i>Mark Buncher, Asphalt Institute</i>      | 1-5  |
|                 | Contractor Quality Control Program<br><i>Jarrett Welch, Quality Paving Consultants</i>             | 1-6  |
| 2:30 - 2:45 pm  | BREAK  |      |
|                 | Owner Acceptance Testing / PWL<br><i>John Duval, Duval Engineering LLC</i>                         | 1-7  |
|                 | Class Exercise - Pay Factor Analysis<br><i>John Duval, Duval Engineering LLC</i>                   | 1-8  |
|                 | Prime Coat, Milling and Patching<br><i>Danny Gierhart, Asphalt Institute</i>                       | 1-9  |
| 4:30 - 5:00 pm  | Day 1 Review / Q&A<br><i>FAA and AI Engineers</i>  | 1-10 |

**Times and Presenters  
are subject to change!**

### May 15, 2019 - Day Two

|                   |   |     |
|-------------------|---|-----|
| 8:00 am           | Tack Coat Best Practices<br><i>Danny Gierhart, Asphalt Institute</i>        | 2-1 |
|                   | Paving Operations<br><i>Jarrett Welch, Quality Paving Consultants</i>       | 2-2 |
| 9:45 - 10:00 am   | BREAK   |     |
|                   | HMA Compaction Operations<br><i>Danny Gierhart, Asphalt Institute</i>       | 2-3 |
|                   | Longitudinal Joint Best Practices<br><i>Mark Buncher, Asphalt Institute</i> | 2-4 |
| 11:30 - 12:00 pm  | Day 2 Review / Q&A<br><i>FAA and AI Engineers</i>                           | 2-5 |
| 12:00 - 1:00 pm   | LUNCH   | 2-6 |
| 1:00 pm - 3:00 pm | Equipment Demonstration<br><i>Wirtgen America</i>                           | 2-7 |

## Clinic Registration Form

The Asphalt Institute | **Airfield Paving Clinic**  
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May 14 - 15, 2019 | Antioch, Nashville, TN

### Professional Development Hours (PDH)

The clinic will earn attendees 13.25 Professional Development Hours (PDHs).

### Clinic Contacts

#### Anthony Cochran, P.E. Civil Engineer

Federal Aviation Administration  
Southern Region, Airports Division  
1701 Columbia Ave  
College Park, GA 30337  
[anthony.cochran@faa.gov](mailto:anthony.cochran@faa.gov)

#### John Duval, P.E. AI Consultant/Clinic Manager

Duval Engineering LLC  
3003 NE 31st Ave  
Portland, OR 97212  
503.709.7447  
[john@duval.biz](mailto:john@duval.biz)

#### Mark Buncher, Ph.D., P.E. Director of Engineering

Asphalt Institute  
2696 Research Park Drive  
Lexington, KY 40511  
859.288.4972  
[mbuncher@asphaltinstitute.org](mailto:mbuncher@asphaltinstitute.org)

### Transfer, Cancellation and Refund Policy

You may cancel without penalty up to three weeks prior to the course start date. If you provide the Asphalt Institute less than three weeks' notice, or fail to attend, you will be liable for the entire fee. Substitutions are permitted. Early registration is recommended as the class size is limited. Call us at 859.288.4960 with any questions or concerns.

### Registration Fees and Materials

The registration fee is \$695 per person, \$595 for State Aviation Officials, \$495 for FAA personnel. Registration fees cover all clinic 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 Hot Mix Asphalt
- Course Workbook Includes all presentations and handouts
- Flash drive with pertinent FAA ACs and other info

#### 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)

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.

- ☐ \$695    ☐ \$595 (State Aviation Officials)    ☐ \$495 (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 \_\_\_\_\_