An Introduction to the Bailey Method

Pearl Country Club, 
Pearl I Room 
98-535 Kaonohi Street 
Aiea, Hawaii 96701 

Friday 
September 3, 2010 
8:30 a.m. – 4:30 p.m.

Registration Procedure
1. Please contact Gail Yamamoto at 808-956-8367, 808-956-8851 (FAX) or gikeda@hawaii.edu by Monday, August 23, 2010.
2. Attendance is limited.

Cancellations
Please contact us if you must cancel your registration or if someone will be substituting for you.

Registration begins at 8:00 a.m.
Lunch and refreshments provided courtesy of HAPI

Presented in Partnership by:

Hawaii Asphalt Paving Industry 
Hawai'i Local Technical Assistance Program
University of Hawai'i at Mānoa 
Department of Civil & Environmental Engineering

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**Course Description:**

This introductory one-day course will focus on the practical, “day to day” aspects of the Bailey Method. By utilizing the AI Basic Analysis Spreadsheet, the participant should be able to start utilizing the Bailey Method principles in their work.

The Bailey Method and its four principles are introduced to understand how aggregate properties affect aggregate packing. The AI Basic Analysis Spreadsheet provided with this course will enable the participant to predict the magnitude and direction of changes in VMA based on changes to a mix design gradation or gradation fluctuations in plant produced mix. As a result, this course information can become a valuable asset to evaluate existing mixtures and in a quality control program.

**Target Audience:**

This one-day course will be of most benefit to those who already have a good grasp of hot-mix asphalt mix design and want to learn how to optimize volumetrics and field compactability.

**Agenda:**

- **8:00** Registration
- **8:30-9:00** Introduction and Definition of Bailey Principles
- **9:00-10:15** Bailey Principle #1
- **10:15-10:30** BREAK
- **10:30-12:00** Bailey Principles #2, #3 & #4
- **12:00-1:00** LUNCH
- **1:00-2:00** Students calculate Bailey Parameters
- **2:00-2:30** Class to calculate anticipated volumetric changes
- **2:30-2:45** BREAK
- **2:45-3:15** Utilizing Bailey Spreadsheets
- **4:30** Adjourn

*Schedule is flexible*

**Speakers:**

**Robert (Bob) Humer**  
Bob is the Sr. Regional Engineer of the Asphalt Institute for six western States including HI. He is highly regarded for his expertise in HMA mix design and construction for both highway and airport application. Bob has a Masters degree in Civil Engineering from Delft University of Technology in the Netherlands, and worked as research engineer at the Asphalt Institute headquarters laboratory during the 1970’s. As a civil engineer for the Dutch Aviation Authority in the 1980’s, Mr. Humer was intimately involved in all aspects of design and construction of airport pavement facilities in the Netherlands, the Middle East, and the Caribbean. He has worked with both government agencies and consulting firms on such projects as the Midget Man Missile System, the Strategic Highway Research Program (SHRP), and harbors and airports worldwide. Bob is a member of ASCE and the Association of Asphalt Paving Technologists (AAPT).

**Mark D. Blow**  
Mr. Mark Blow is a Senior Regional Engineer for the Asphalt Institute, a registered Professional Engineer and a member of the Association of Asphalt Paving Technologists. He has over 30 years of experience in the design, construction and maintenance of asphalt pavement. He has been with the Asphalt Institute since 1996 and has been heavily involved in the delivery of materials and construction technology to the asphalt community with a focus on mixture design and construction.