Registration Procedure
1. Please contact Gail Yamamoto at 808-956-8367, 808-956-8851 (FAX) or gyamamo@hawaii.edu by Wednesday, February 16, 2011.
2. Attendance is limited.

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

Parking
Limited parking at the Hawai‘i Tokai International College is available on levels 4, 4a, 5 & 5a in guest stalls only. Please be prepared to provide your vehicle make, color and license number and parking level at the registration desk.

The Basics of the Bailey Method
(Management Course)

Tokai University Pacific Center, 19th Floor
2241 Kapiolani Boulevard
Honolulu, Hawai‘i 96826

Tuesday
February 22, 2011
9:00 a.m. – 2:00 p.m.
(Lunch provided)

Presented in Partnership by:
Course Description:

This course provides an overview of the concepts and principles of the Bailey Method, which focuses on aggregate packing in HMA. Attendees will gain a basic understanding of the Bailey Method. The course includes a detailed discussion of what “Quality Control” really is in regards to mix production and placement. It is not however intended to train the attendee as to how to utilize the Bailey Method in regards to Quality Control or Quality Assurance.

Target Audience:

This course is designed for upper level management, Superintendents (Project, Paving, Plant), Estimators, etc. that make decisions that “play a role” in the ability of Quality Control personnel in utilizing the tool for Mix Design blend development/analysis of results, and/or Quality Control adjustments/analysis of results.

Agenda:

I. Introduction
   a. Why Do YOU Need to Know About the Method?
   b. Benefits to Date from Using the Tool
   c. Voids in the Mineral Aggregate (VMA)
   d. Aggregate Blending
   e. Origin of the Bailey Method
   f. The Big Picture

II. Aggregate Packing (VMA)
   a. Packing Factors
   b. Defining Coarse and Fine
   c. Primary Control Sieve
   d. Volume vs. Weight

III. Conducting Unit Weight Tests
   a. Coarse Aggregates (9.5mm NMAS or >)
   b. Fine Aggregates (4.75mm NMAS or <)

IV. Mix Type
   a. Defining and Determining Mix Type & Importance of Lift Thickness
   b. CA Chosen Unit Weight
   c. Developing the Combined Blend

V. Evaluating the Combined Blend
   a. Coarse-Graded Mixes
   b. Stone Matrix Asphalt Mixes
   c. Fine-Graded Mixes

VI. HRG Excel Volume Blending Spreadsheets
   a. VBS RAP Blending Example

VII. Estimating VMA and Voids
   a. Coarse-Graded Example

VIII. VMA and Voids Estimation Spreadsheets
   a. Coarse-Graded Example

IX. Bailey Method Summary
   a. The Four Principles
   b. How Does the Method Help?
   c. Field Value
   d. The Impact of Your Decisions

X. Quality Control
   a. What Is It?
   b. How Do You Define It?
   c. The Bermuda Triangle
   d. Production QC
   e. Placement QC
   f. How Much QC Is Necessary?
   g. What Can You Do To Improve Quality?

Speaker:

William J. Pine, P.E.

Bill has a B.S. degree in Civil Engineering from Rose-Hulman Institute of Technology in Terre Haute, IN and is a registered Professional Engineer in Illinois.

He worked for District 5 of the Illinois DOT from 1985 to 1998, spending most of that time in the Bureau of Materials, working with HMA design, production and placement issues.

In January 1999, Bill started with Emulsicoat in Urbana, IL and Heritage Research Group in Indianapolis, IN, where his role is focused on supporting the various Heritage Group companies and their customers with HMA projects performed by Heritage Research such as:

- The Formula 1 Road Course at the Indianapolis Motor Speedway in 1999, the rehabilitation of the Main Oval in 2004, the 2007 reconfiguration of the F1 track and
- Research, application and training of the Bailey Method

Bill's job has allowed him to work on HMA projects in several states around the U.S., as well as in the countries of France, Canada and Russia.