

3<sup>ο</sup> ΔΙΕΘΝΕΣ ΣΥΝΕΔΡΙΟ  
ΑΣΦΑΛΤΙΚΑ ΜΙΓΜΑΤΑ ΚΑΙ ΟΔΟΣΤΡΩΜΑΤΑ  
Θεσσαλονίκη, 21-22 Νοεμβρίου 2002

## **ALTERNATIVES FOR THE STRUCTURAL CLASSIFICATION OF AIRPORT PAVEMENTS BASED ON INTERNATIONAL EXPERIENCE**

### **A Loizos \***

Associate Professor, National Technical University of Athens NTUA, GR

\* Department of Transportation Planning & Engineering

Iroon Polytehneiou 5, 157 73 Zografou, aloizos@central.ntua.gr

### **C. Abacoumkin**

Professor, National Technical University of Athens, Sch. of Civil Engineering

### **G Charonitis**

Civil Engineer, Res Associated, National Technical University of Athens

### **ABSTRACT**

Structural classification and reporting of asphalt airport pavements is among the most important tools of every up-to-date management system. Thus in this work several alternatives for classification / reporting pavement strength available to use in airport pavement management are investigated and discussed. Relevant analyses have been performed focusing on practical applications. The structure data used come either from field testing and measurements or laboratory testing or a combination of both.

Results showed that there is significant incompatibility among the results of the different methods which makes it difficult to implement them for managing the bearing capacity of airport pavements. To this end, a simple and flexible alternative for the PCN estimation based on Greek experience is presented and analysed. It is believed that it can provide an improved tool for managing asphalt airport pavements and the basis of an advanced method for PCN calculations in Greece.

**KEY WORDS:** *Classification, management, airports, PCN, ACN.*