

Special Lecture

by Dr. Nakhorn (Assoc. Prof. Thammasat University)

Ambient Vibration Test : Practical Application for Civil Engineering

Date: March 02, 2009 (Mon.)

Time: 15:30 ~17:30 *presentation time includes discussion*

Venue: Meeting Room of Dept. of Civil Engineering (Building 1)

Ambient Vibration Test is one of the powerful approaches for determining system properties. The technique has been widely used in several engineering problems due to the fact that the test does not require information of excitation and it can be conducted under the normal (service) condition of structures. The achievement from this technique can be found in many applications, from member components to integrated structure. In this lecture, the fundamental considerations for Ambient Vibration Test are first introduced, and some applications are demonstrated.

Contents;

Introduction to vibration tests, experimental modal analysis, basic theory for analytical modal analysis, Examples; identification of dynamic properties of buildings, tower and bridges, determination of tension force in cable, estimation of shear wave velocity of subsoils.

Keywords : Vibration, Structural Engineering,

Earthquake Engineering, etc...

タマサート大学の Nakhorn 先生が来日されます。構造、振動、地震に興味のある人は大変良い機会ですので、ぜひ参加してください。