



# GEODESY AND GEOMATICS ENGINEERING

presents

## Special Guest Lecture

**VASSILIS GIKAS, Associate Professor**

**National Technical University of Athens, Greece**

**Monday, October 19, 2015 @ 4:00 pm**

**Head Hall – Room E-11**

**Engineering Surveying, Positioning & Navigation at NTUA,  
Greece: An Overview of Undergoing Research Activities**

### ABSTRACT

This presentation will provide an overview of the research activities currently undertaken within the Group of Applied Geodesy of the National Technical University of Athens (NTUA). Two major areas of activities will be covered. The first area deals with the dynamic (vibration) monitoring and analysis of large civil engineering structures, particularly tall structures and road bridges. Emphasis is placed on field techniques and the analysis for the structural kinematics and modal properties computation using modern techniques such as ground-based microwave interferometry and digital image correlation. The second half of the presentation relates to research in the field of kinematic positioning and navigation. The focus will be on GNSS++ added sensors fusion for positioning and navigation applications. Also, the research activity undertaken in the area of ubiquitous and indoor positioning for land vehicle and pedestrian navigation will be reviewed.

**Everyone welcome!**