

Department of Electrical and Computer Engineering

Title: “Modeling Sound Propagation using Olive Tree Lab - Terrain”

**Panos Economou and Polykarpos Polykarpou
of PEMARD**

**Wednesday, 19th November 2014, 17:00 – 18:30
Room ΠΤΕΠ E116, Old Campus
University of Cyprus**

Abstract:

P.E. Mediterranean Acoustics Research & Development Ltd (PEMARD) is an R&D company which carries out research in acoustics and implements software solutions for acousticians. Noise assessment and sound propagation are important topics to acoustical engineers. Olive Tree Lab - Terrain is a unique software application dedicated to calculate sound propagation in 3D spaces and assists in the assessment noise and the design of remedial measures. In this presentation we will be presenting a short history of PEMARD, the purpose and the scientific background of OTL-Terrain, its distinct capabilities and we will demonstrate in real time the use of the application in a real world scenario. Since OTL-Terrain uses waved based concepts and methodologies, it models wave phenomena found in other scientific fields such as interference, diffraction and reflection to name a few, phenomena which may be of interest to a broader scientific audience

Biography:

Panos Economou after graduating Mechanical Engineering (BSc) and Applied Acoustics (MSc) established in Cyprus in 1982 Panacoustics Ltd, an Acoustics Consultancy (www.panacoustics.com) and in 2009 P.E. Mediterranean Acoustics Research & Development Ltd (www.pemard.com) a research company focused in Acoustics and in developing acoustical software and products.

Polykarpos Polykarpou has received his Electrical and Computer Engineering degree after graduating from University of Patras. Energy and Acoustics are his main areas of interest. He is currently working with the P.E. Mediterranean Acoustics R&D team where he holds the position of the Quality Assurance Engineer.