



# ΙΤΕ/ΙΕΧΜΗ

## ΣΕΜΙΝΑΡΙΟ ΣΕΜΙΝΑΡΙΟ

**ΟΜΙΛΗΤΗΣ:** **Βασίλειος Κωστόπουλος**, Καθηγητής  
Τμήμα Μηχανολόγων & Αεροναυπηγών Μηχανικών  
Πανεπιστήμιο Πατρών

**ΘΕΜΑ:** **Structural Composites: From Analysis to manufacturing and SHM**

**ΤΟΠΟΣ:** Αίθουσα Σεμιναρίων ΙΤΕ/ΙΕΧΜΗ

**ΗΜΕΡΟΜΗΝΙΑ:** **Δευτέρα, 20 Απριλίου 2015**

**ΩΡΑ:** **12:30**

### ΠΕΡΙΛΗΨΗ

The presentation deals with the recent activities/achievements of our research group. The topics that will be covered belong in the general fields of structural analysis, manufacturing and SHM of composite structures.

More precisely the presentation concentrates in 3 different topics:

1. The composite fuselage Section WAFER Design Approach for Increasing environmental performance and Safety.
2. Damage Tolerance Aerostructures by using nano-technology.
3. SHM of critical Aerostructures by using FBGs in the form of ribbon tapes.

Furthermore currently running activities in the fields of high strain rate behavior of composites and the repair optimization of composite structures will be introduced.



# ITE/IEXMH

## Short CV

**Professor Vasilis KOSTOPOULOS**, Department of Mechanical Engineering & Aeronautics, University of Patras, is the Director of the Applied Mechanics and Vibrations Laboratory.

He has an extensive (over 25 years) experience in the field of composite materials and structures. He is the author of 125 journal publications, more than 180 conference presentations and 5 books in the field of composites. He holds 7 patents (3 EU and 1 US). He is member of Advisory Council for Aviation Research and Innovation in Europe and member of Clean Sky 2 SRG. Since February 2014 he is member of National Council for Research and Technology.

On 2010, together with his colleagues Dr. G. Sotiriadis and Mech Eng. I. Fotiou, have developed SEATRAC, the only device (worldwide) that can offer people with disabilities completely autonomous access to the sea.

SEATRAC has received the 1st Innovation award in the pan-Hellenic Contest for Applied Research and Innovation "Greece Innovates" sponsored by Hellenic Federation of Enterprises and Eurobank.