

## **Short CV of Professor Vassilis KOSTOPOULOS**

**Born:** Athens, August 25, 1957

**Nationality:** Greek

**Present Position:** Professor, Director of Applied Mechanics & Vibrations Lab.

**Business Address:** University of Patras, Department of Mechanical Engineering & Aeronautics, Applied Mechanics Lab, GR-265 04 Patras, Greece.  
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1980: Degree in Mechanical Engineering (Dip. Eng.), National Technical University of Athens, Greece

1987: PhD in Applied Mechanics (Wave Propagation & Scattering, Non – destructive testing of Composite Materials), University of Patras, Greece

- 1994 – 1996: Visiting Scientist, JRC Petten, The Netherlands, Institute for Advanced Materials, EU
- 2018 Visiting Professor, Dept. of Mechanical Engineering, Center for Composite Materials, University of DELAWARE, USA.
- Member of the States Representative Group (SRG) of JTI 'CLEAN SKY 2' (2014-2020), and Vice President of SRG.
- Member of CS3 Preparation Group, Explore & Mature Working Group, 2019.
- 2011-today Member of the Advisory Council for Aviation Research and innovation in Europe (new ACARE).
- Elected Member of the Council of the European Society for Composite Materials (ESCM), and President of the Council.
- 2003 – 2011 Member of the Advisory Council for Aeronautics Research in Europe (ACARE).
- Member of the National States Representative Group (NSRG) of JTI 'CLEAN SKY' (2008-2014).
- 2003 – 2006 National Delegate of FP6 Aerospace Program Committee
- 2007-2013 National Delegate of FP7 Transport (including Aeronautics) Program Committee
- Member of the Editorial Board of the Journal 'Composite Science and Technology'
- Member of the Editorial Board of the Journal 'Mechanics of Advanced Materials and Structures'
- Member of the Editorial Board of the open 'Journal Composite Science'
- Member of the Editorial Board of the Journal 'Research & Reviews in Polymers'
- Associate Editor of the 'International Journal of Aerospace Engineering' (2008-2014)
- Reviewer in more than 45 International Scientific Journals
- Evaluator of research proposals (EU, UK, Belgium, Czech Republic, Switzerland, Romania, Greece and Cyprus)
- Member of the International evaluation board of Romanian Research Centers (INCAS and COMOTI)

### **Teaching Activities:**

#### **Undergraduate Courses:**

(a) Vector Mechanics for Engineers (I. Static, II. Dynamics), (b) Experimental Mechanics of Composite Materials, (c) Thermo-mechanical behavior of Composite and Ceramic Materials, (d) Micro-Macro Mechanical Behavior of Composite Materials, (e) Non-Destructive Testing and Non-Destructive Inspection, (f) Wave Propagation and Scattering in Layered Media, (g) Sensors and Signal Analysis, (h) Materials for Aeronautic Applications, (i) Damage Tolerance Design, (j) Space Technologies.

#### **Graduate Courses:**

(a) Advanced Dynamics, (b) Fatigue and Fracture Behavior of Composite materials and Structures, (c) Ceramic Matrix Composites, (d) Wave propagation and Scattering Theory, (e) Mathematical Theory of Elasticity, (f) Anisotropic Elasticity

### **Research Interests:**

Design, Analysis and Optimization of Composite (lightweight) Structures.

Non-Destructive Inspection & Evaluation of Engineering Structures, Structural Health Monitoring.

Nano-augmentation, Nano-engineering and Nano-design of structural composites.

Fracture and Fatigue of Composites Materials and Structures.

Blast, impact and crash behavior of Aerospace Structures, high strain rate effects on metals and composites.

Anisotropic Elasticity, Anisotropic Damage Theory.

Wave Propagation and Scattering in Continuous Media. Non-Linear Acoustics.

Life cycle analysis of composite components and structures

Space Technologies and Micro & Nano Satellites

Biomechanics & Bioengineering (implants design, 2 and 3D scaffolds, stress analysis, wear and fretting fatigue)

### **Publications:**

**205 publications in international referee Journals**

**291 presentations in International Conferences**

**7 books (5 International and 2 in Greek)**

**16 chapters in international books**

**71 technical reports**

## **41 Invited Lectures in International Conferences and International events**

**CITATIONS** (google scholar): **4299**

**h-index: 34**

**i10 index: 100**

**International Research Projects (since 2000):** Scientific Coordinator (Greek participation) and Principal investigator for 76 International Research Projects, (EU, ESA, EDA, NSF, USAF and Industrial ones).

**Co-organizer of 59 International Conferences**

**Main Supervisor of 31 completed PhD theses**

**Supervisor of 185 MSc theses**

**Patents:** 3 European, 1 US and 7 National

### **RECENT AWARDS (since 2018)**

- **1st Senior Scientist Award (AIR), in TRA-VISIONS 2020 Senior Researcher Competition, Transport Research Arena, Helsinki, 2020.**
- **Communication Award, Aerospace Challenge 2018/2019, ESA Educational Office, EXPRESS – EUROPEAN MULTI-PURPOSE REUSABLE SPACEPLANE, Paris, June 2019.**
- **1st Innovation Award, UK innovation competition organized by Accelerate ME 2018/19 programme, December 2018.**
- **2nd prize of the International CubeSat and Mission Contest, Northwestern Polytechnical University, Xi'an, November 2018.**