

# CV

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## PERSONAL DETAILS

SURNAME: KOTROTSOS  
NAME: ATHANASIOS  
DATE OF BIRTH: 09/02/1985  
BIRTH PLACE: AGRINION GREECE  
PERMANENT RESIDENCE: PALIAMBELA VONITSAS ETOL/NIAS  
MARITAL STATUS: SINGE

## CONTACT INFORMATION

E-MAIL: akotrotso@mech.upatras.gr  
CITY: PATRAS  
POSTAL CODE: 26441

## OTHER INFORMATION

DRIVE LICENSE: PRIVATE B CATEGORY  
MILITARY SERVICE: COMPLETED

## EDUCATIONAL TRAINING

1. **Dipl.-ing** (Dpt of Mechanical and Aeronautical Engineering, university of Patras Greece, November 2008). The Graduate Thesis has the title: **“Static and Dynamic Loading on Copper-Epoxy Particulate Composites”** (Supervisor: Prof. **George Papanicolaou**), which was elaborated at **Composites Materials Group Laboratory (CMG)**.

2. **M.Sc** (Interdepartmental degree qualified at Science and Technology of Polymers, university of Patras Greece November 2011). The Master Thesis has the title: **“The effect of CNTs modified matrix of CFRPs on the hydrothermal behavior of the material. Evaluation of the water uptaking using electrical resistance measurements”** (Supervisor: Prof. **Vassilis Kostopoulos**), which was elaborated at **Applied Mechanics Laboratory and Vibrations (AML)**.

3. **Ph.D Candidate** (Dpt of Mechanical and Aeronautical Engineering, university of Patras Greece) in applied mechanics (**Development of Self-Healing techniques into Fiber Reinforced Composite Materials**), (Supervisor: Prof. **Vassilis Kostopoulos**).

4. Member of **TEE** (Technical Chamber of Greece) from 5-3-2009.

#### WORK EXPERIENCE

4/2006-12/2006 and 12/2009-12/2010

- **OTE VOICE MAIL** (Telecommunications Agency of Greece) Telephone directory inquiry of Greece.

11/2011-6/2012

- **Mechano-composer** of Aircrafts at Stefanovikion Magnisias during military service.

During 2013

- **COEUS-TITAN** 7TH FRAMEWORK PROGRAMME. Project full title: "Innovative Smart Composite Moulds for Cost-Effective Manufacturing of Plastic and Composite Components"

9/ 2012- 9/2015

- **THALES** "Development of self healing composite materials and innovative techniques for structural health monitoring on aerospace applications"

10/ 2015-1/2016

- **Erasmus Placement** in Hannover, Germany. Training on Electrospinning set up and elaboration part of my Ph.D Thesis. Cooperation with the **Institute for Multiphase Processes (IMP)** of University of **Leibniz**

9/ 2013 till Now

- **HIPOCRATES** 7TH FRAMEWORK PROGRAMME. Proposal full title: Self-Healing Polymer for Concepts on self-Repaired Aeronautical composites.

## LANGUAGES

### GREEK

- Native Language

### ENGLISH

- Certificate of **Lower** University of Cambridge – 2003
  - Certificate of **Proficiency** according to **CEFR** (Common European Framework of Reference for Languages) - 2016
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## PARTICIPATION IN CONFERENCES

1. **ICSAAM 2007** (International Conference on Structural Analysis of Advanced Materials) September 2007 Patras (Psathopyrgos).

Participation with oral presentation:

- *Experimental investigation on Copper-Epoxy Particulate Composites Subjected to static and Dynamic Loading*

2. **AIRCRAFT AND ENVIRONMENT** (AIRBUS, BOEING) Athens April 2008  
PRESIDENT HOTEL Kifisias ave. 43.

- *Simple participation*

3. **DYRACOSUS** (9th International Conference on Durability of Composite Systems) September 2010 Patras (Rodini).

- *Simple participation*

4. **ICSAAM 2013** (International conference on structural analysis of advanced materials) September 2013 Kos (Dodekhanisos).

Participation with oral presentation:

- *The effect of CNTs modified matrix of epoxy CFRPs on the hydrothermal behavior of the material: Evaluation of the water uptaking using electrical resistance measurements*

5. **THERMA 2014** (6th Hellenic conference on Thermal Analysis & Thermidometry), Technical Institute of Thessaly, Larissa 26-28 September 2014.

Participation with oral presentations:

- *Thermogravimetric Analysis and Thermal Conductivity Study of Polymer Matrix Micro-and Nano-TiO<sub>2</sub> Particulate Composites*
- *Dynamic Mechanical Analysis of polymer matrix micro and nano TiO<sub>2</sub> particulate Composites*
- *Mechanical and DSC of Epoxy Matrix/TiO<sub>2</sub> Micro-and Nano-Particulate Composites*

6. **10th HPSC** (10th HELLENIC POLYMER SOCIETY CONFERENCE with International Participation), University of Patras, Rio Campus, Patras, 4-6 December 2014

Participation with poster presentations:

- *Experimental investigation on Self-healing efficiency of doped Fiber Reinforced Plastics with Thermoplastic micro-Particles*
- *Strategies on implementing a potential self healing functionality in a composite structure*
- *Self-Heating Composite molds for the " green " manufacturing of composite components*

7. **ICSAAM 2015**, (The 6th International Conference on Structural Analysis of Advanced Materials) September 2015, Porto, Portugal.

Participation with oral presentations:

- *Experimental investigation on Self-healing efficiency of doped Fiber Reinforced Plastics with Thermoplastic micro-Particles*
- *Strategies on implementing a potential self healing functionality in a composite structure*

8. **E-MRS 2015 FALL**, (Fall Meeting of the European Materials Research Society) September 2015, Warsaw, Poland.

Participation with oral presentation:

- *Experimental investigation on Self-healing efficiency of doped Carbon Fiber Reinforced Plastics with Bis-maleimide based polymers*

Participation with poster presentation:

- *Introducing a modified compact tension specimen for potential use in self healing applications*

9. **5th International Science Slam 2015**, October 2015, Hannover, Germany.

Participation with oral presentation:

- *Self-healing Concepts for Aerospace Applications*

10. **ΘEPMA 2016** (7th Hellenic conference on Thermal Analysis & Thermidometry), University of Ioannina, Ioannina 27-29 of May 2016.

Participation with oral presentation:

- *Modeling and Experimental Verification of the Stacking Sequence and Surface Treatment Effect on the Thermal Conductivity of Multilayered Hybrid Nano-Composites (accepted for oral presentation) by: G.C. Papanicolaou, E.J. Pappa, D.V. Portan, A. Kotrotsos*

11. **ECCM17** (European Conference on Composite Materials) 26-30 June 2016, Munich/Germany.

Participation with oral presentation::

- *Impact and CAI tests on doped Carbon Fiber Reinforced Plastics with Bis-Maleimide based polymers. Thermal characterization and Healing Efficiency value (accepted for oral presentation).*

## PUBLICATIONS

- 1. G.C. Papanicolaou, A.G. Xepapadaki, A. Kotrotsos and D.E. Mouzakis**  
*"Interphase Modelling of Copper-Epoxy Particulate Composites Subjected to static and Dynamic Loading"*, Volume 109, Issue 2, 15 July 2008, Pages 1150-1160, Accepted for publication in, Journal of Applied Polymer Science.
- 2. A. Kotrotsos, A. Vavouliotis, S. Tsantzalidis and V. Kostopoulos**  
*"The Effect of CNT modified matrix of epoxy CFRPs on hydrothermal behaviour of material. Evaluation of water uptake using electrical resistance measurement"* Volume 43, Issue 4 (May 2014), pp. 122-129, Accepted for publication in, Journal of Plastics, Rubber and Composites.
- 3. A. Kotrotsos, A. Vavouliotis, T. Loutas and V. Kostopoulos**  
*"The Effect of CNT modified matrix of cyanate ester CFRPs on the hydrothermal behavior of the material. Evaluation of the water uptake using electrical resistance measurements"* Article first published online: 27 OCT 2014 DOI: 10.1002/pc.23268, Accepted for publication in, Polymer Composites.
- 4. A. Kotrotsos, A. Baltopoulos, S. Tsantzalidis, X. Tsilimigkra, P. Tsokanas and V. Kostopoulos**  
*"Experimental investigation on self-healing efficiency of doped fiber reinforced plastics with PET micro-particles"*, UPB SCIENTIFIC BULLETIN, SERIES D: MECHANICAL ENGINEERING 78, (1), 2016.
- 5. V. Kostopoulos, A. Kotrotsos, S. Tsantzalidis, P. Tsokanas, T. Loutas and A. W. Bosman**  
*"Toughening and healing of continuous fibre reinforced composites by supramolecular polymers"*, Composites Science and technology 128, 2016, 84-93.
- 6. V. Kostopoulos, A. Kotrotsos, S. Tsantzalidis, P. Tsokanas, A. C. Christopoulos and T. Loutas**  
Toughening and healing of continuous fibre reinforced composites with bis-maleimide based pre-pregs, (accepted for publication in Smart materials and structures 3/2016).

## INTERESTS

- Sports-Gym
- Traditional and folk Greek dances
- Board member in Traditional dances group of University of Patras
- Trips